

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM090216\  
 Data File : BM007370.D  
 Acq On : 02 Sep 2016 16:12  
 Operator : UM/SJ  
 Sample : H4612-01MSD  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 NC-TS-003MSD

Manual Integrations  
 APPROVED

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 9/2/2016 5:20:51 PM

Quant Time: Sep 02 16:45:12 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\8270-SIM-BM090116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Sep 02 12:51:17 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.79  | 152  | 4568     | 5.00 | ng    | -0.02    |
| 7) Naphthalene-d8         | 10.58 | 136  | 19760    | 5.00 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.42 | 164  | 11361    | 5.00 | ng    | 0.00     |
| 19) Phenanthrene-d10      | 17.16 | 188  | 23003    | 5.00 | ng    | 0.00     |
| 26) Chrysene-d12          | 21.35 | 240  | 15706    | 5.00 | ng    | 0.00     |
| 35) Perylene-d12          | 23.61 | 264  | 14363    | 5.00 | ng    | 0.00     |

## System Monitoring Compounds

|                          |       |     |       |      |    |       |
|--------------------------|-------|-----|-------|------|----|-------|
| 4) 2-Fluorophenol        | 5.39  | 112 | 9349  | 9.91 | ng | 0.00  |
| 5) Phenol-d6             | 6.95  | 99  | 11842 | 9.17 | ng | -0.02 |
| 8) Nitrobenzene-d5       | 8.94  | 82  | 5478  | 4.91 | ng | -0.02 |
| 14) 2,4,6-Tribromophenol | 15.90 | 330 | 3844m | 8.74 | ng | -0.02 |
| 15) 2-Fluorobiphenyl     | 13.05 | 172 | 14473 | 4.10 | ng | 0.00  |
| 29) Terphenyl-d14        | 19.79 | 244 | 10579 | 5.02 | ng | 0.00  |

## Target Compounds

|                                |       |     |        |       |    | Qvalue |
|--------------------------------|-------|-----|--------|-------|----|--------|
| 2) 1,4-Dioxane                 | 3.34  | 88  | 875    | 2.68  | ng | # 64   |
| 3) n-Nitrosodimethylamine      | 3.63  | 42  | 2057   | 4.02  | ng | # 87   |
| 6) bis(2-Chloroethyl)ether     | 7.21  | 93  | 4199   | 4.23  | ng | 99     |
| 9) Nitrobenzene                | 8.98  | 77  | 5047   | 4.74  | ng | 96     |
| 10) Naphthalene                | 10.61 | 128 | 18056  | 3.99  | ng | # 85   |
| 11) Hexachlorobutadiene        | 10.90 | 225 | 2945m  | 3.56  | ng |        |
| 12) 2-Methylnaphthalene        | 12.24 | 142 | 12925  | 4.00  | ng | 95     |
| 16) Acenaphthylene             | 14.13 | 152 | 23217  | 4.72  | ng | 100    |
| 17) Acenaphthene               | 14.48 | 154 | 13359  | 3.93  | ng | 95     |
| 18) Fluorene                   | 15.46 | 166 | 15770  | 3.95  | ng | 98     |
| 20) 4-Bromophenyl-phenylether  | 16.35 | 248 | 4504   | 4.84  | ng | # 74   |
| 21) Hexachlorobenzene          | 16.47 | 284 | 4628   | 3.93  | ng | # 93   |
| 22) Pentachlorophenol          | 16.81 | 266 | 5079   | 14.01 | ng | # 82   |
| 23) Phenanthrene               | 17.19 | 178 | 45220  | 7.70  | ng | 99     |
| 24) Anthracene                 | 17.29 | 178 | 29044m | 4.92  | ng |        |
| 25) Fluoranthene               | 19.23 | 202 | 62695  | 9.07  | ng | 99     |
| 27) Benzidine                  | 19.36 | 184 | 33     | 0.03  | ng | # 1    |
| 28) Pyrene                     | 19.59 | 202 | 59394  | 13.27 | ng | # 96   |
| 30) Benzo(a)anthracene         | 21.33 | 228 | 35366  | 7.79  | ng | 98     |
| 31) 3,3'-Dichlorobenzidine     | 21.27 | 252 | 386    | 0.31  | ng | # 65   |
| 32) Chrysene                   | 21.37 | 228 | 31286m | 7.08  | ng |        |
| 33) Bis(2-ethylhexyl)phthalate | 21.25 | 149 | 22159  | 9.36  | ng | # 98   |
| 34) Indeno(1,2,3-cd)pyrene     | 25.90 | 276 | 23430  | 6.03  | ng | 100    |
| 36) Benzo(b)fluoranthene       | 22.93 | 252 | 36255  | 8.10  | ng | 95     |
| 37) Benzo(k)fluoranthene       | 22.98 | 252 | 19659  | 4.76  | ng | 98     |
| 38) Benzo(a)pyrene             | 23.51 | 252 | 27628  | 6.95  | ng | 94     |
| 39) Dibenzo(a,h)anthracene     | 25.92 | 278 | 14069  | 4.36  | ng | 92     |
| 40) Benzo(g,h,i)perylene       | 26.61 | 276 | 21373  | 6.39  | ng | 92     |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

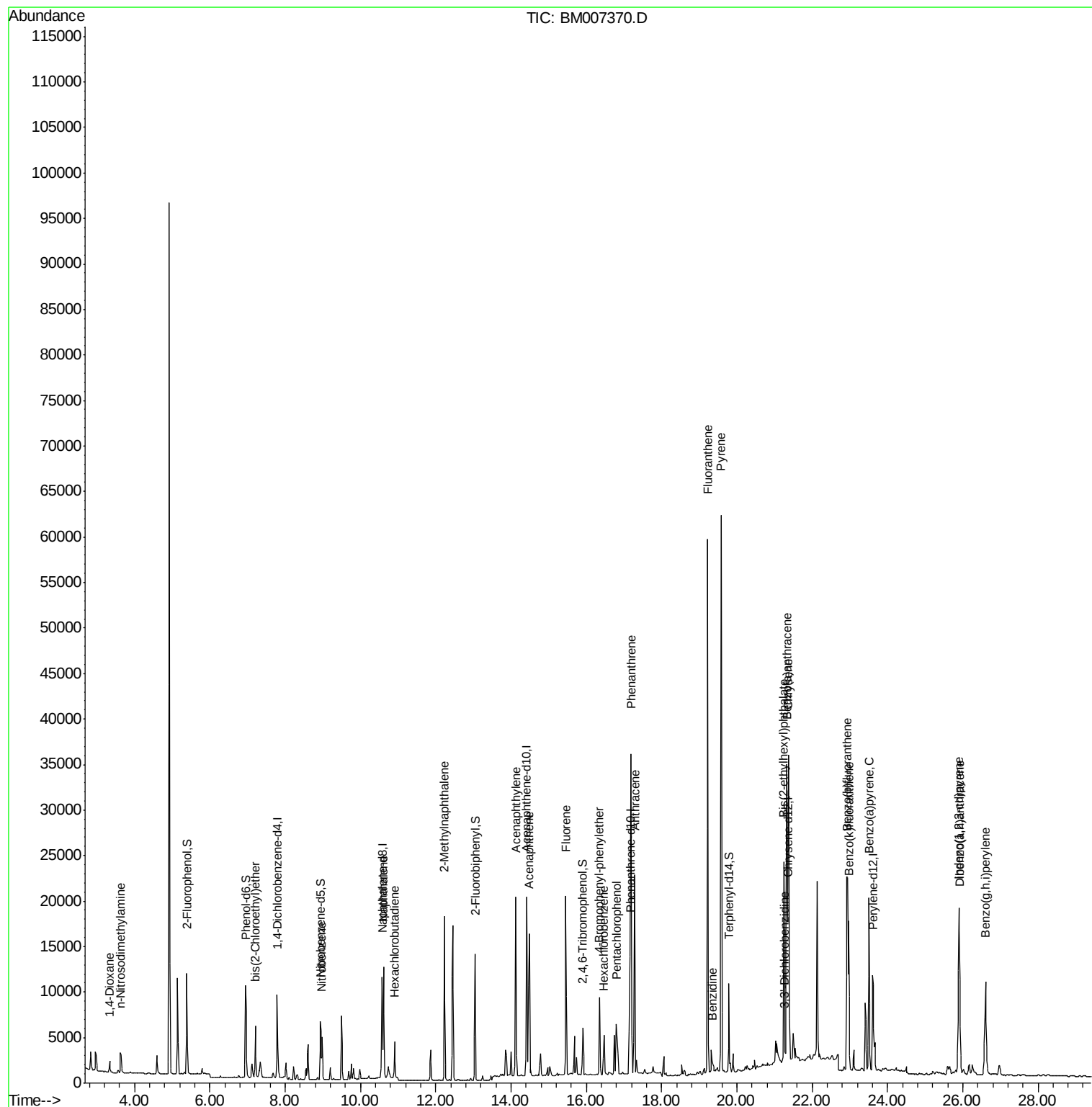
Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM090216\  
Data File : BM007370.D  
Acq On : 02 Sep 2016 16:12  
Operator : UM/SJ  
Sample : H4612-01MSD  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

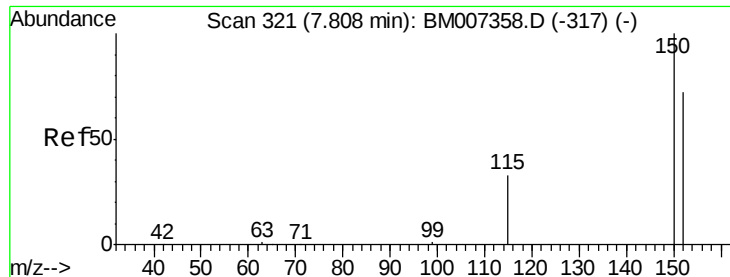
Instrument :  
BNA\_M  
ClientSampleId :  
NC-TS-003MSD

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Quant Time: Sep 02 16:45:12 2016  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\8270-SIM-BM090116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Sep 02 12:51:17 2016  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.79 min Scan# 320

Delta R.T. -0.02 min

Lab File: BM007370.D

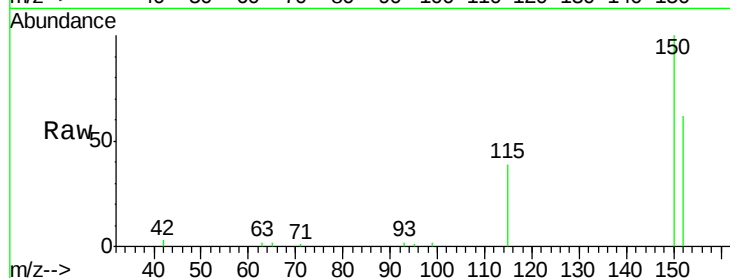
Acq: 02 Sep 2016 16:12

Instrument :

BNA\_M

ClientSampleId :

NC-TS-003MSD



Tgt Ion: 152 Resp: 4568

Ion Ratio Lower Upper

152 100

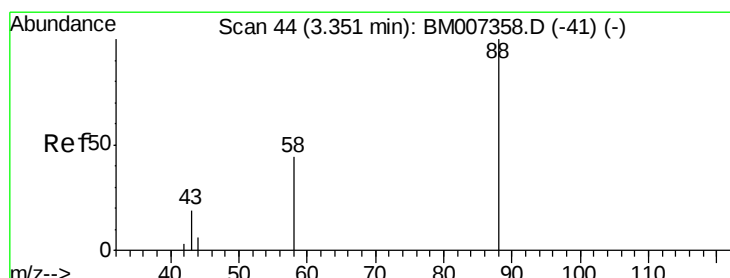
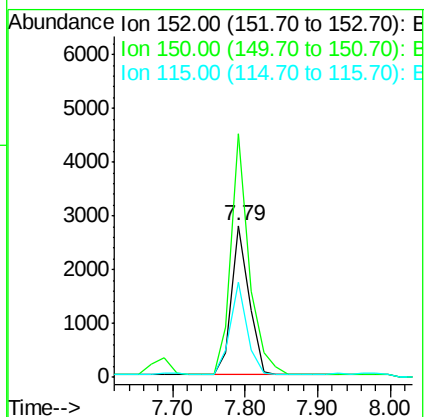
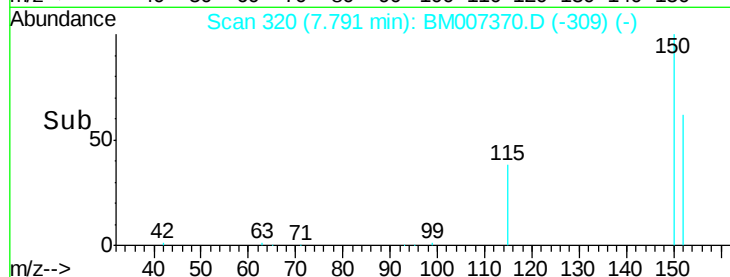
150 160.7 109.8 164.8

115 62.9 39.0 58.4#

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#2

1,4-Dioxane

Concen: 2.68 ng

RT: 3.34 min Scan# 43

Delta R.T. -0.02 min

Lab File: BM007370.D

Acq: 02 Sep 2016 16:12

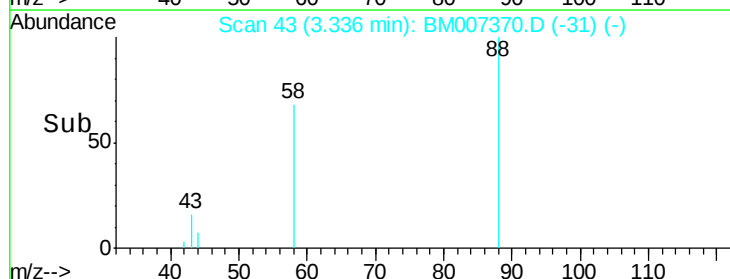
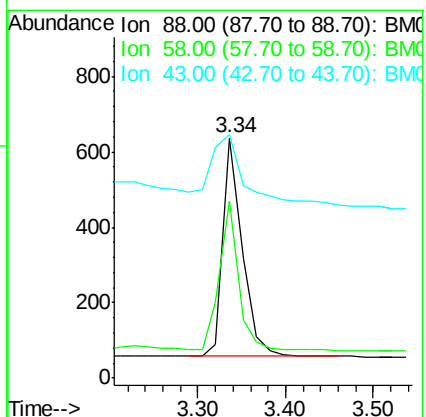
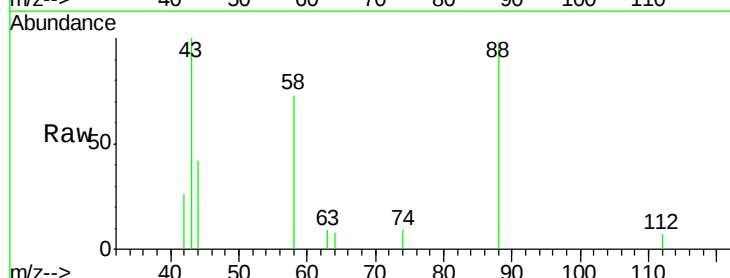
Tgt Ion: 88 Resp: 875

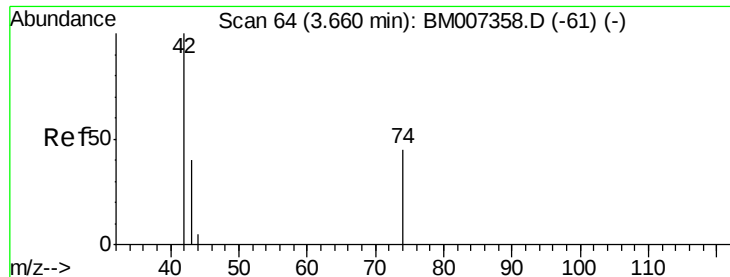
Ion Ratio Lower Upper

88 100

58 69.1 41.0 61.4#

43 59.7 24.2 36.2#





#3

n-Nitrosodimethylamine

Concen: 4.02 ng

RT: 3.63 min Scan# 62

Delta R.T. -0.03 min

Lab File: BM007370.D

Acq: 02 Sep 2016 16:12

Instrument :

BNA\_M

ClientSampleId :

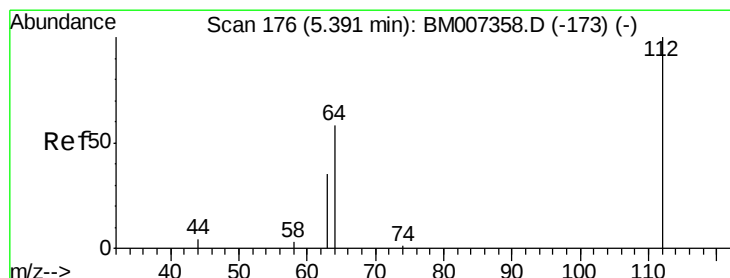
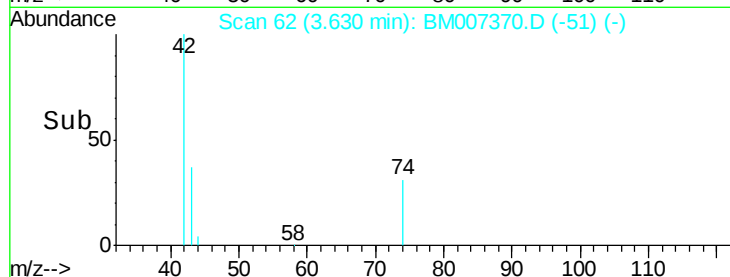
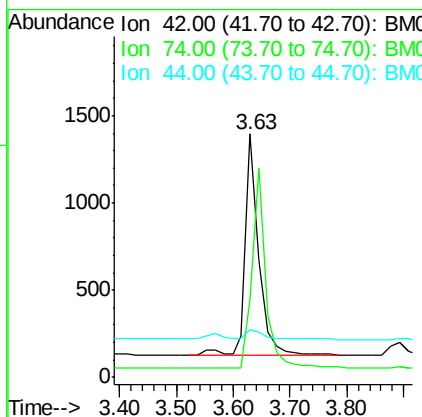
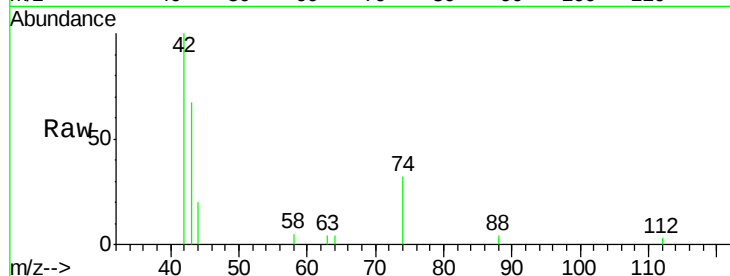
NC-TS-003MSD

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 2057  |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 74       | 91.3  | 78.9  | 118.3 |
| 44       | 4.8   | 19.1  | 28.7# |

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#4

2-Fluorophenol

Concen: 9.91 ng

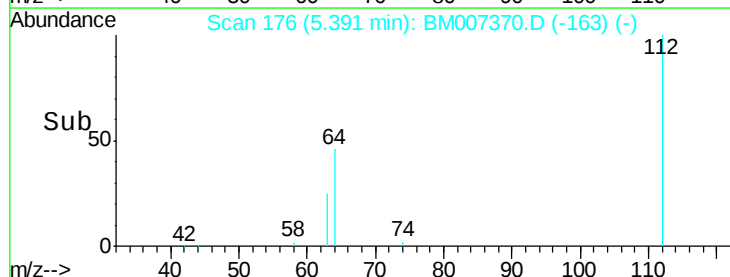
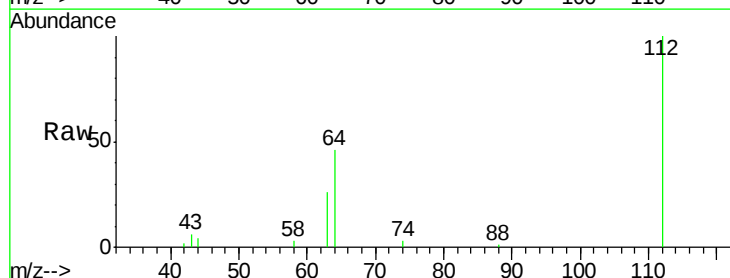
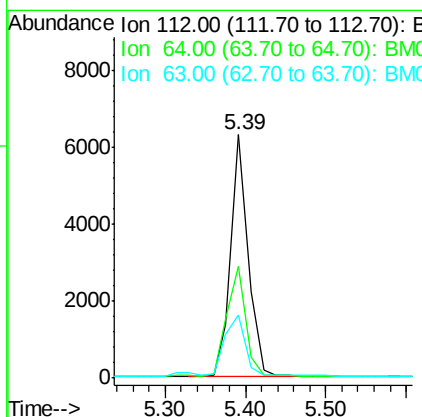
RT: 5.39 min Scan# 176

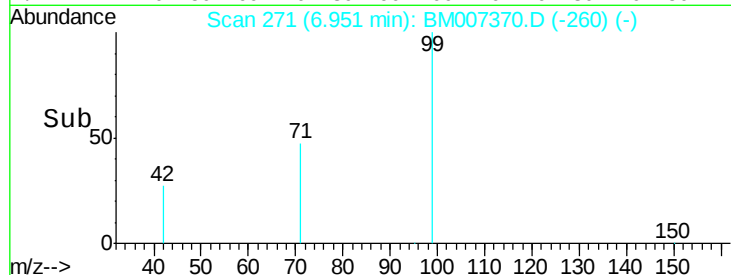
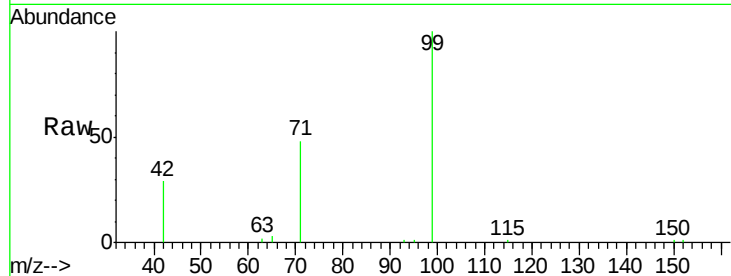
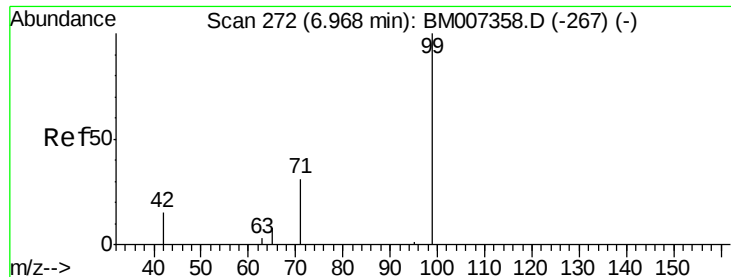
Delta R.T. 0.00 min

Lab File: BM007370.D

Acq: 02 Sep 2016 16:12

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 112   | Resp: | 9349  |
| Ion      | Ratio | Lower | Upper |
| 112      | 100   |       |       |
| 64       | 50.1  | 36.9  | 55.3  |
| 63       | 31.8  | 22.6  | 34.0  |





#5

Phenol-d6

Concen: 9.17 ng

RT: 6.95 min Scan# 271

Delta R.T. -0.02 min

Lab File: BM007370.D

Acq: 02 Sep 2016 16:12

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 11842 |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 22.1  | 19.8  | 29.8  |
| 71       | 37.3  | 28.1  | 42.1  |

Instrument :

BNA\_M

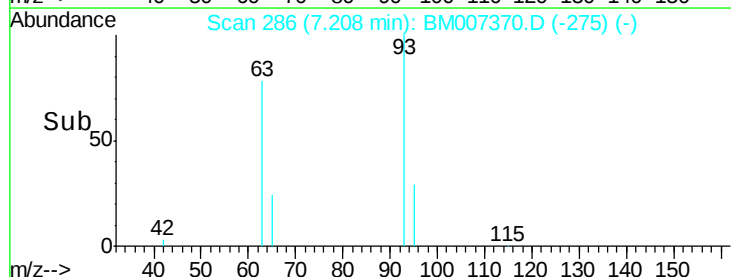
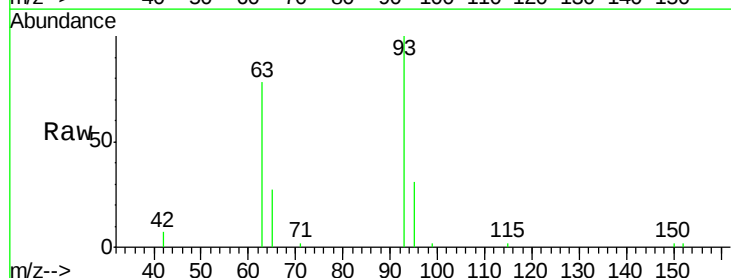
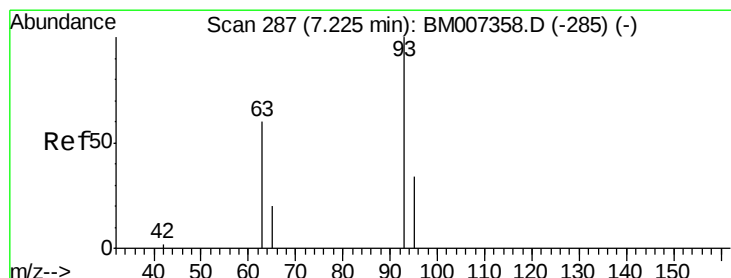
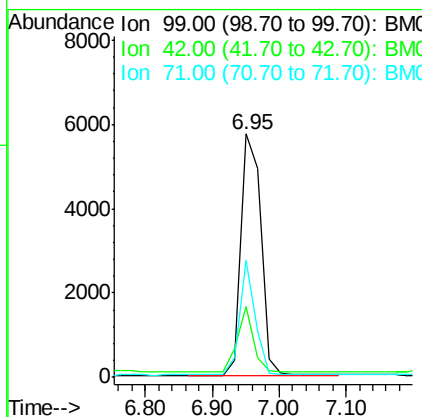
ClientSampleId :

NC-TS-003MSD

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#6

bis(2-Chloroethyl)ether

Concen: 4.23 ng

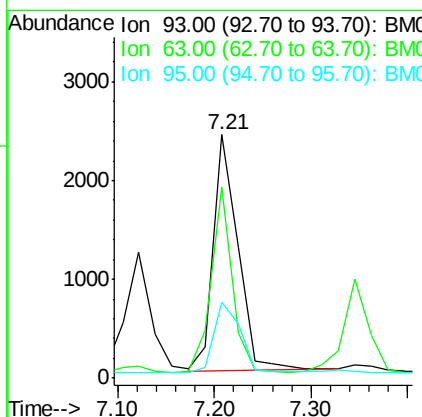
RT: 7.21 min Scan# 286

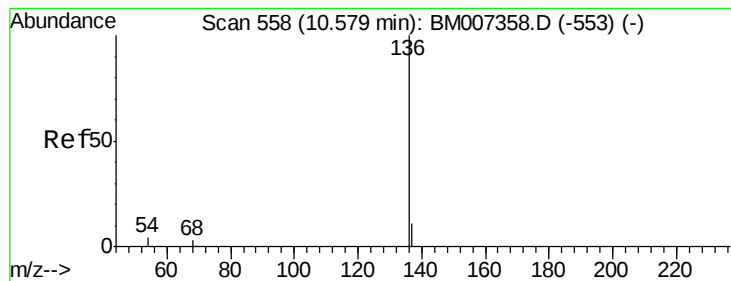
Delta R.T. -0.02 min

Lab File: BM007370.D

Acq: 02 Sep 2016 16:12

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 4199  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 66.9  | 54.3  | 81.5  |
| 95       | 31.6  | 25.7  | 38.5  |





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.58 min Scan# 558

Delta R.T. 0.00 min

Lab File: BM007370.D

Acq: 02 Sep 2016 16:12

Instrument :

BNA\_M

ClientSampleId :

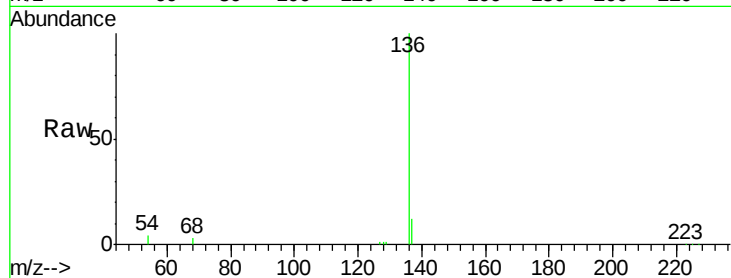
NC-TS-003MSD

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 136   | Resp: | 19760 |
| Ion Ratio | Lower | Upper |       |
| 136       | 100   |       |       |
| 137       | 12.0  | 9.4   | 14.0  |
| 54        | 3.6   | 4.0   | 6.0#  |
| 68        | 2.9   | 2.7   | 4.1   |

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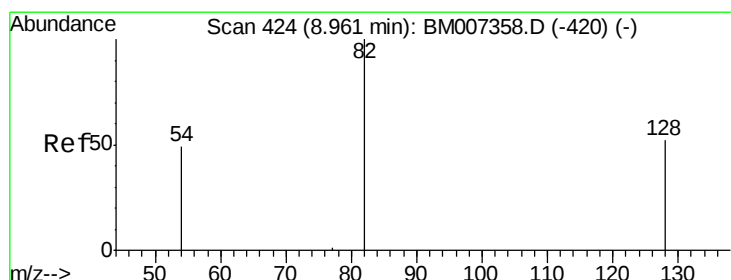
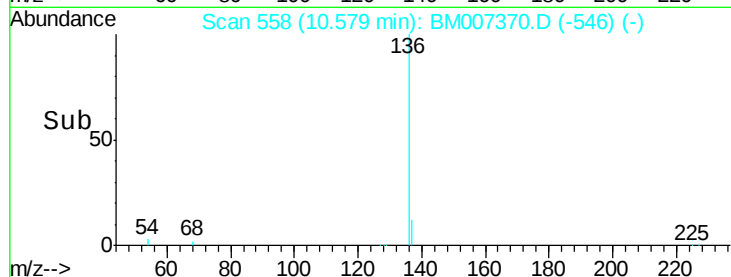
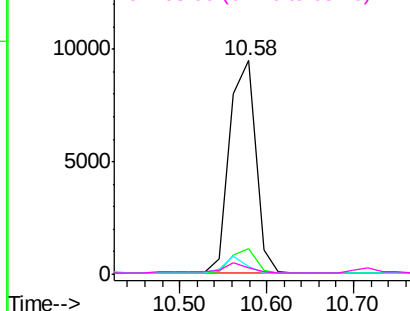


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BM

Ion 68.00 (67.70 to 68.70): BM



#8

Nitrobenzene-d5

Concen: 4.91 ng

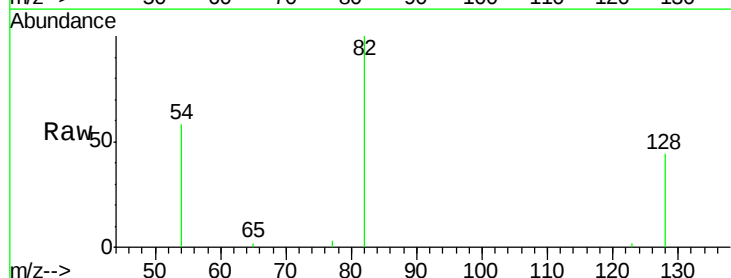
RT: 8.94 min Scan# 422

Delta R.T. -0.02 min

Lab File: BM007370.D

Acq: 02 Sep 2016 16:12

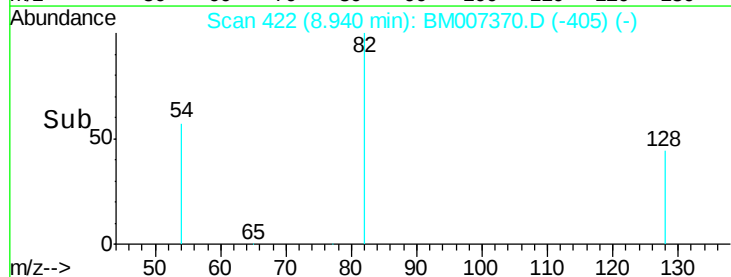
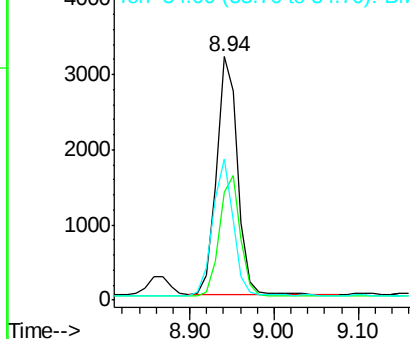
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 82    | Resp: | 5478  |
| Ion Ratio | Lower | Upper |       |
| 82        | 100   |       |       |
| 128       | 44.3  | 54.9  | 82.3# |
| 54        | 57.8  | 53.8  | 80.6  |

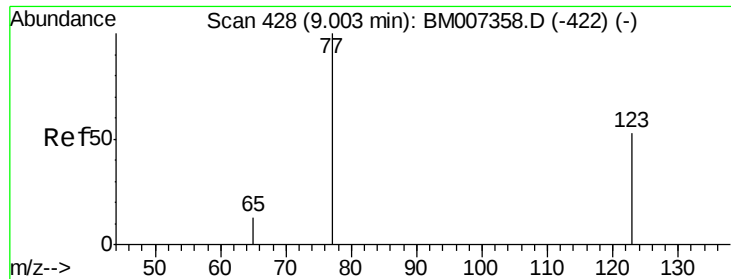


Abundance Ion 82.00 (81.70 to 82.70): BM

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BM





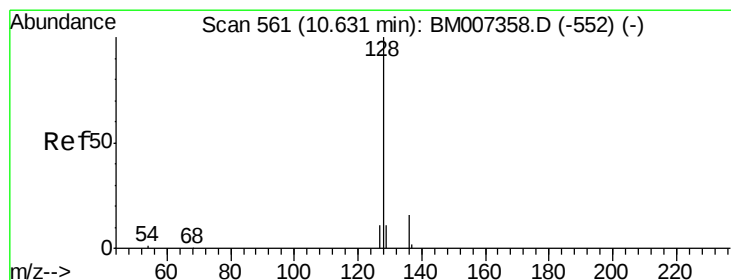
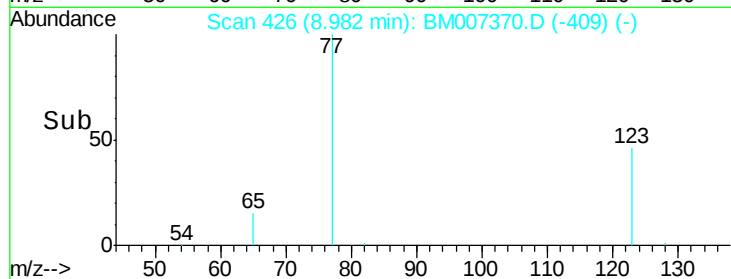
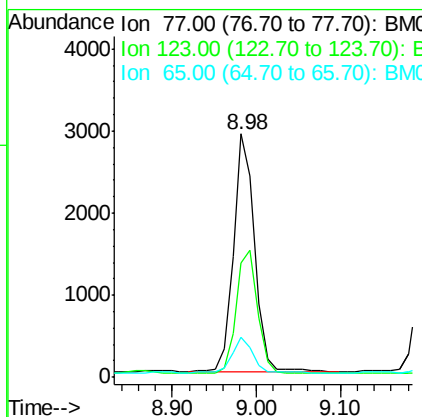
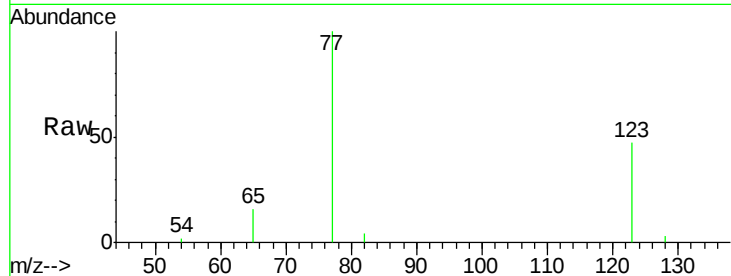
#9  
 Nitrobenzene  
 Concen: 4.74 ng  
 RT: 8.98 min Scan# 426  
 Delta R.T. -0.02 min  
 Lab File: BM007370.D  
 Acq: 02 Sep 2016 16:12

Instrument :  
 BNA\_M  
 ClientSampleId :  
 NC-TS-003MSD

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 77    | Resp: | 5047  |
| Ion      | Ratio | Lower | Upper |
| 77       | 100   |       |       |
| 123      | 52.8  | 40.0  | 60.0  |
| 65       | 14.6  | 10.6  | 15.8  |

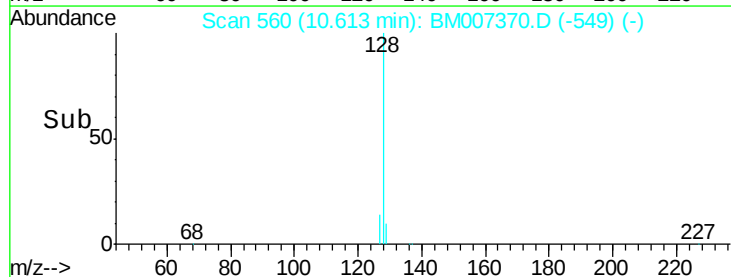
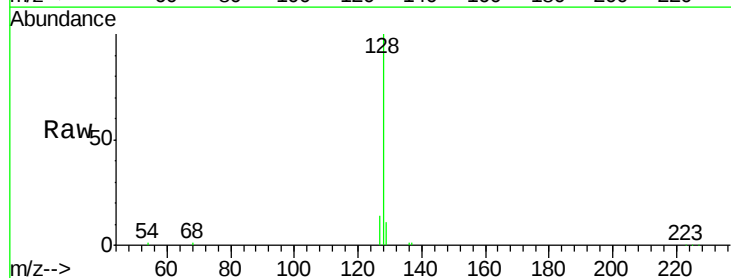
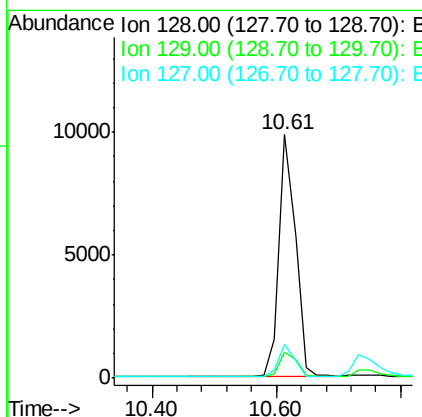
Manual Integrations  
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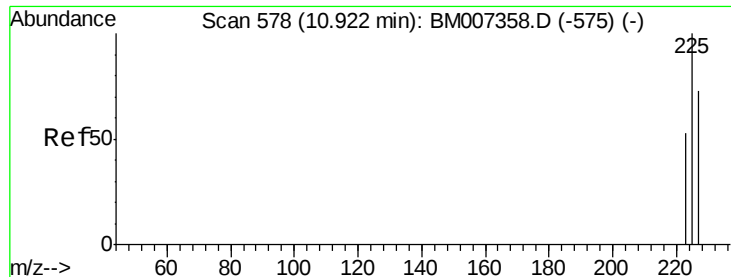
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 9/2/2016 5:20:51 PM



#10  
 Naphthalene  
 Concen: 3.99 ng  
 RT: 10.61 min Scan# 560  
 Delta R.T. -0.02 min  
 Lab File: BM007370.D  
 Acq: 02 Sep 2016 16:12

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 18056 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 10.9  | 15.5  | 23.3# |
| 127      | 14.1  | 15.5  | 23.3# |





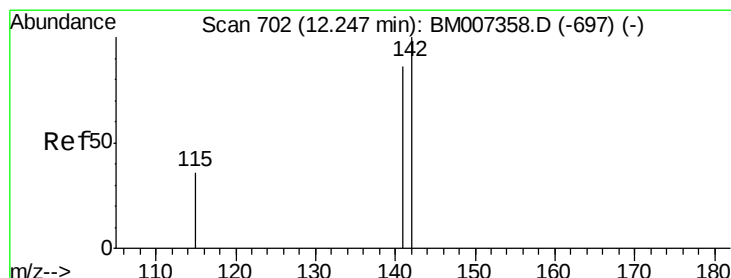
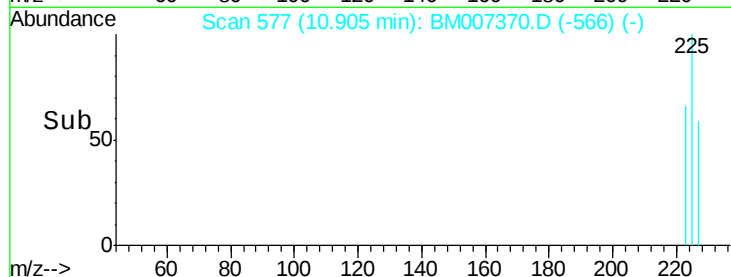
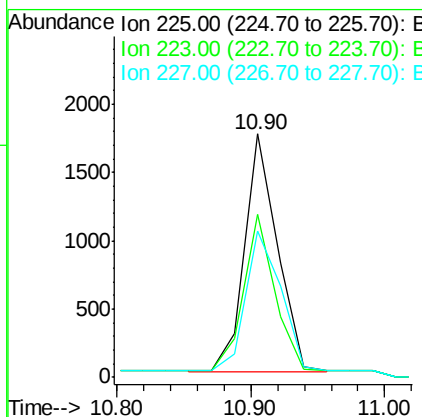
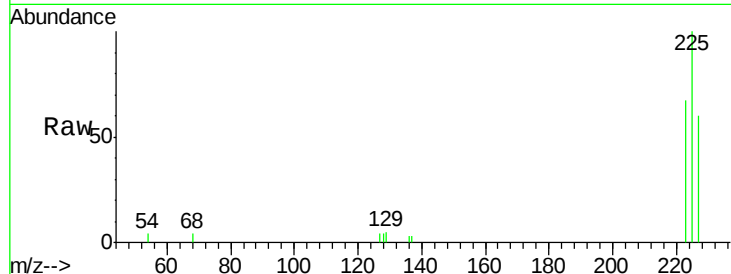
#11  
Hexachlorobutadiene  
Concen: 3.56 ng m  
RT: 10.90 min Scan# 577  
Delta R.T. -0.02 min  
Lab File: BM007370.D  
Acq: 02 Sep 2016 16:12

Instrument :  
BNA\_M  
ClientSampleId :  
NC-TS-003MSD

Tgt Ion: 225 Resp: 2945  
Ion Ratio Lower Upper  
225 100  
223 72.8 197.7 296.5#  
227 73.2 196.2 294.4#

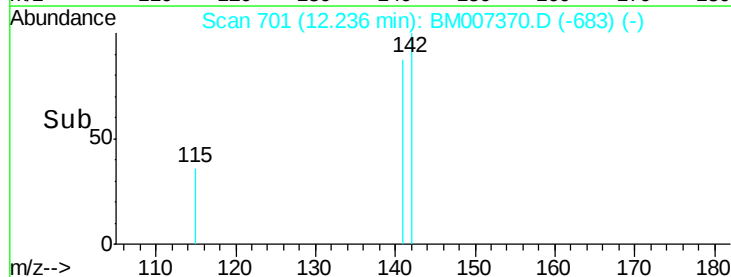
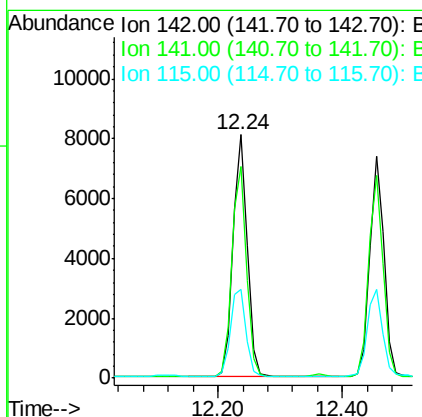
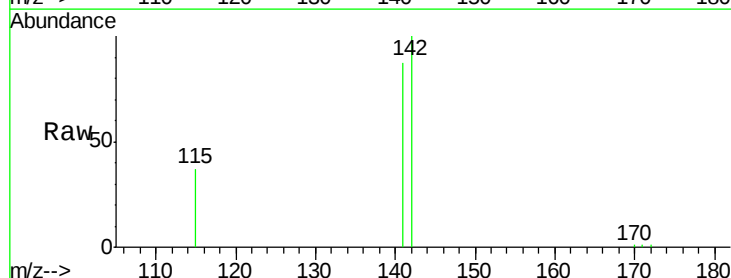
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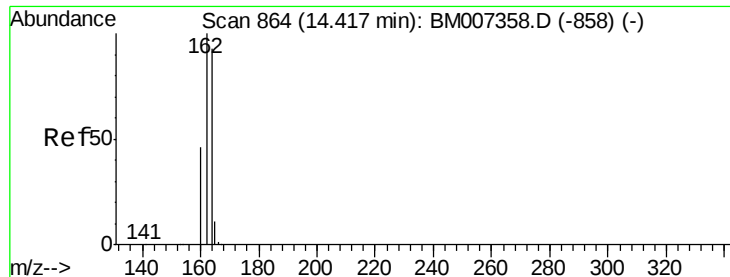
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#12  
2-Methylnaphthalene  
Concen: 4.00 ng  
RT: 12.24 min Scan# 701  
Delta R.T. -0.01 min  
Lab File: BM007370.D  
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Tgt Ion: 142 Resp: 12925  
Ion Ratio Lower Upper  
142 100  
141 86.8 70.2 105.4  
115 36.6 35.7 53.5





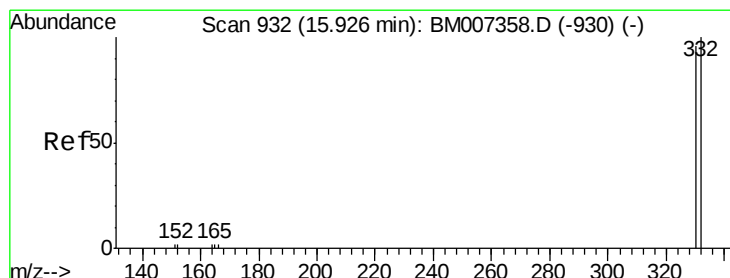
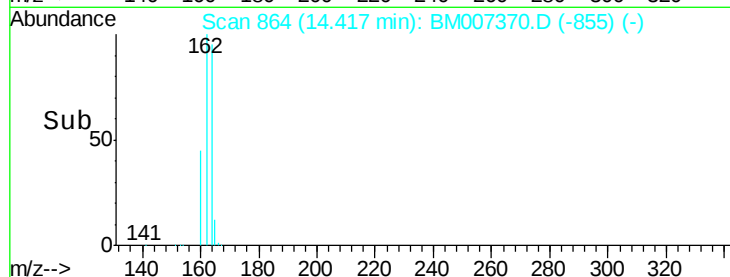
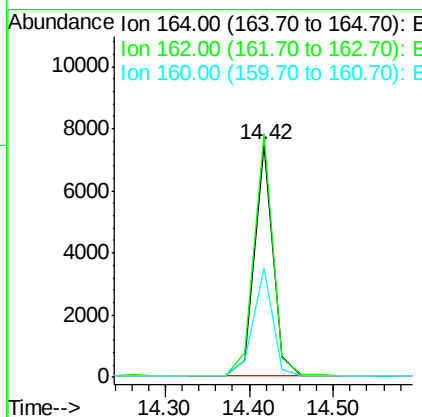
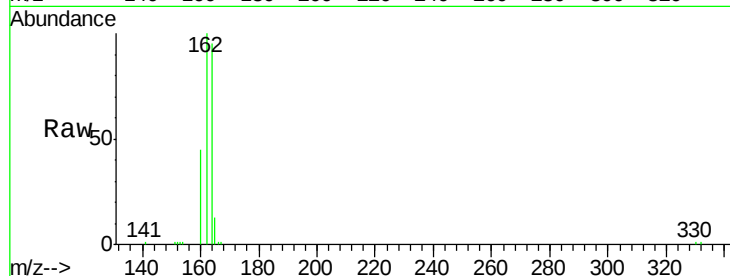
#13  
Acenaphthene-d10  
Concen: 5.00 ng  
RT: 14.42 min Scan# 864  
Delta R.T. 0.00 min  
Lab File: BM007370.D  
Acq: 02 Sep 2016 16:12

Instrument :  
BNA\_M  
ClientSampleId :  
NC-TS-003MSD

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 104.8 | 86.2  | 129.4 |
| 160     | 47.2  | 40.5  | 60.7  |

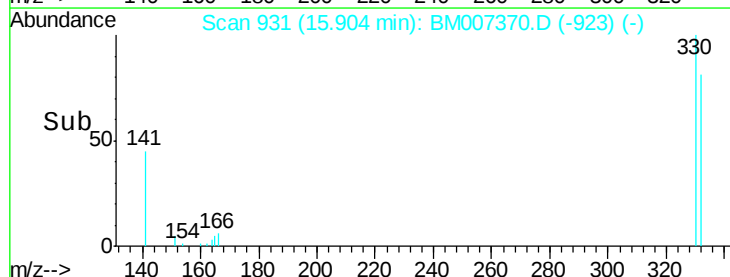
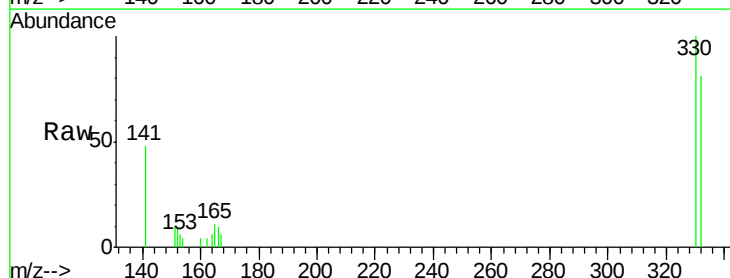
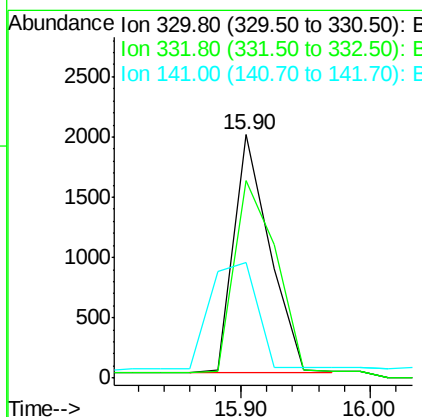
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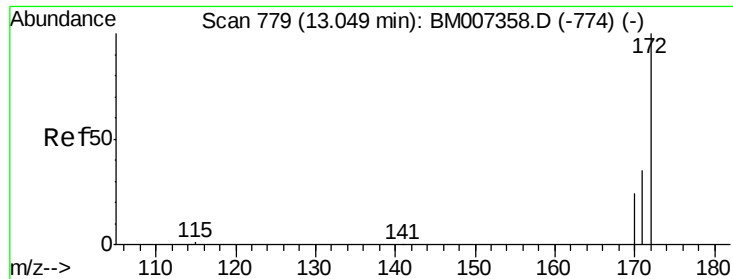
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#14  
2,4,6-Tribromophenol  
Concen: 8.74 ng m  
RT: 15.90 min Scan# 931  
Delta R.T. -0.02 min  
Lab File: BM007370.D  
Acq: 02 Sep 2016 16:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 103.2 | 79.2  | 118.8 |
| 141     | 62.2  | 0.0   | 0.0#  |





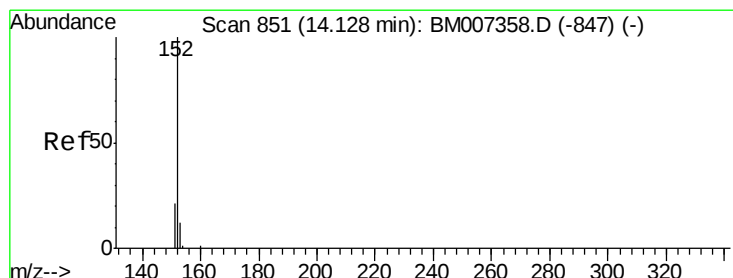
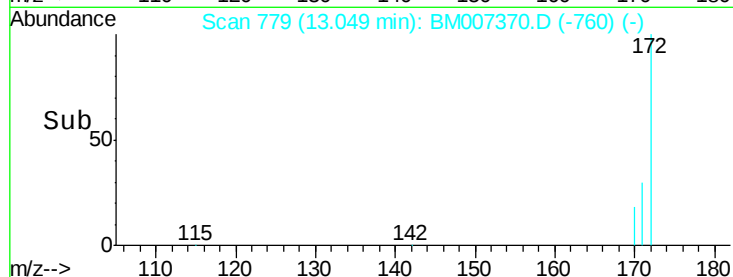
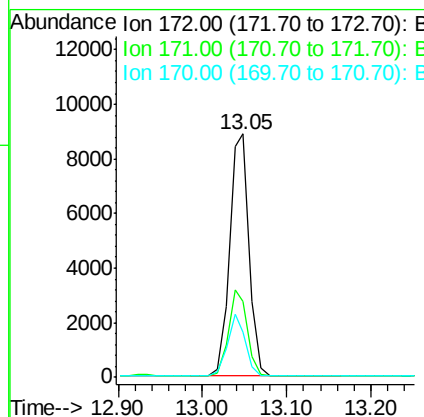
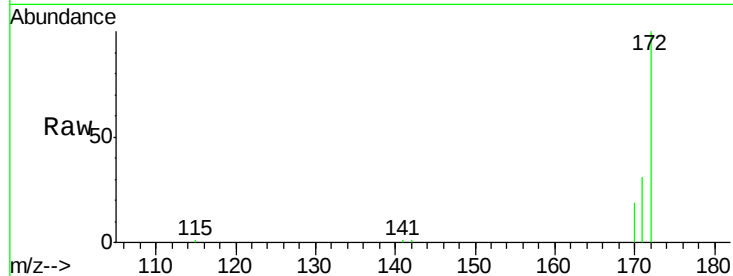
#15  
2-Fluorobiphenyl  
Concen: 4.10 ng  
RT: 13.05 min Scan# 779  
Delta R.T. 0.00 min  
Lab File: BM007370.D  
Acq: 02 Sep 2016 16:12

Instrument :  
BNA\_M  
ClientSampleId :  
NC-TS-003MSD

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 31.2  | 32.2  | 48.2# |
| 170     | 18.7  | 23.5  | 35.3# |

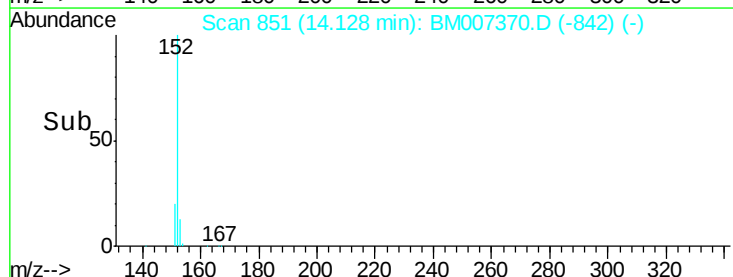
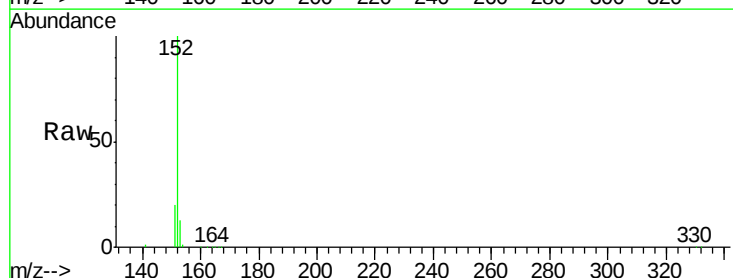
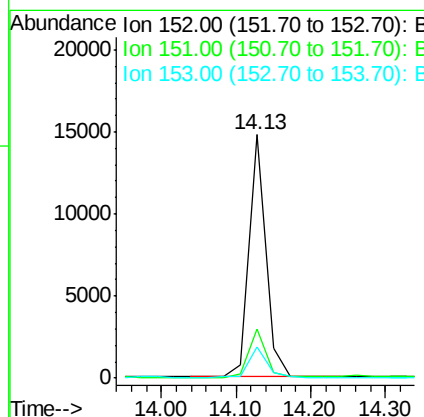
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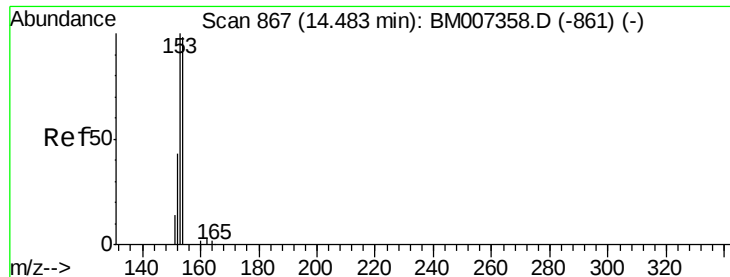
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#16  
Acenaphthylene  
Concen: 4.72 ng  
RT: 14.13 min Scan# 851  
Delta R.T. 0.00 min  
Lab File: BM007370.D  
Acq: 02 Sep 2016 16:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.5  | 15.7  | 23.5  |
| 153     | 12.8  | 10.1  | 15.1  |





#17

Acenaphthene

Concen: 3.93 ng

RT: 14.48 min Scan# 867

Delta R.T. 0.00 min

Lab File: BM007370.D

Acq: 02 Sep 2016 16:12

Instrument :

BNA\_M

ClientSampleId :

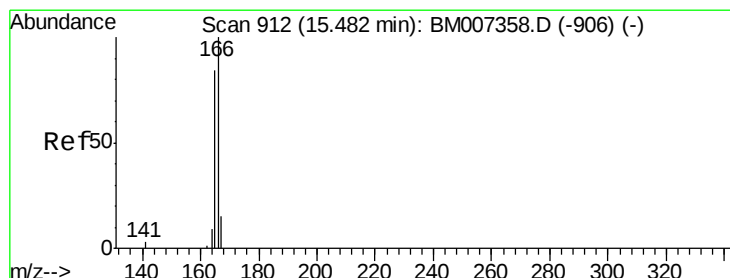
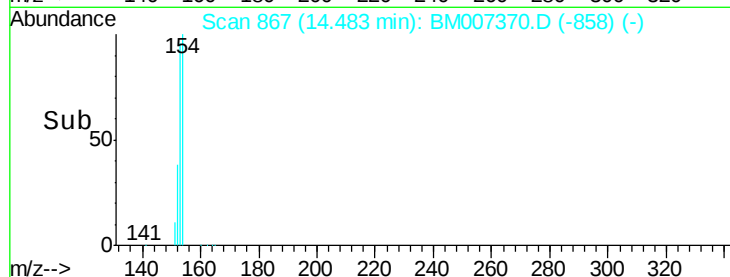
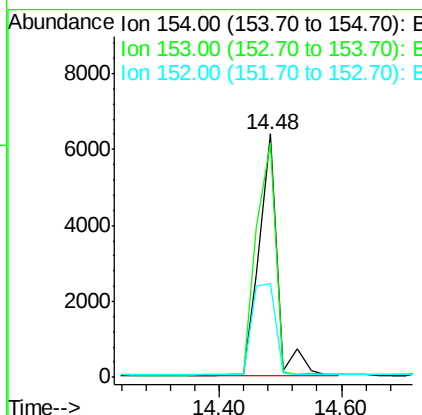
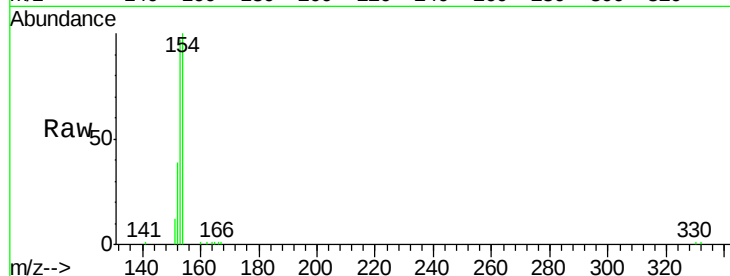
NC-TS-003MSD

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 154   | Resp: | 13359 |
| Ion Ratio | Lower | Upper |       |
| 154       | 100   |       |       |
| 153       | 101.7 | 85.1  | 127.7 |
| 152       | 47.7  | 40.9  | 61.3  |

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#18

Fluorene

Concen: 3.95 ng

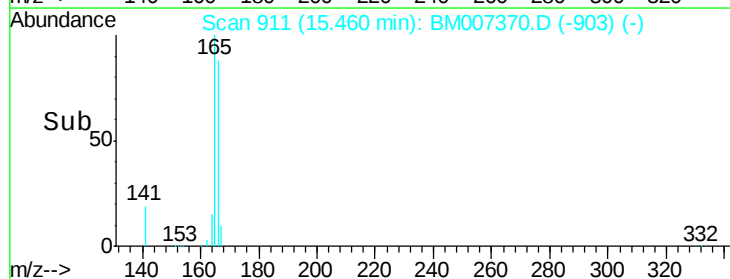
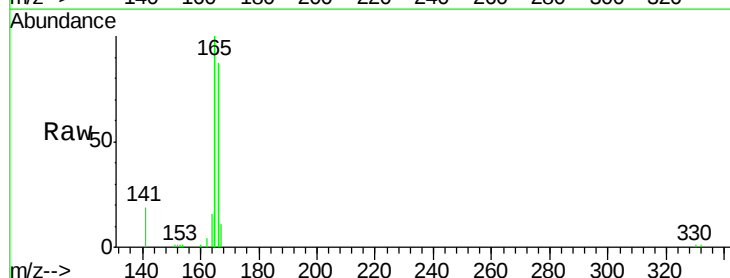
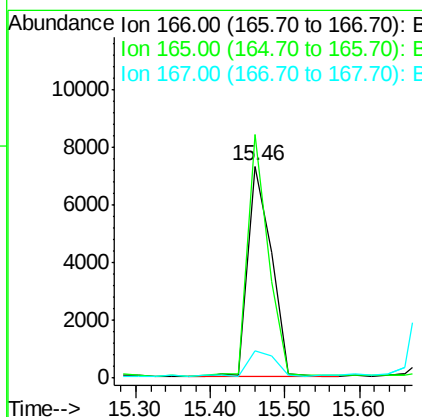
RT: 15.46 min Scan# 911

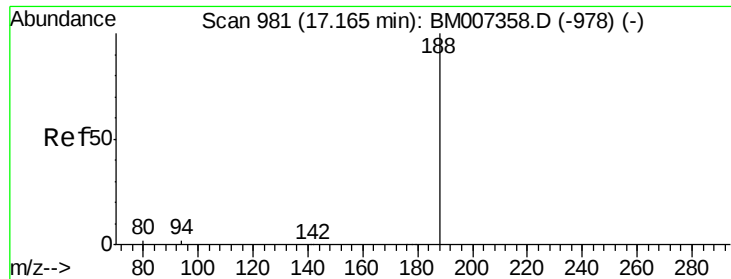
Delta R.T. -0.02 min

Lab File: BM007370.D

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|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 15770 |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 100.8 | 78.8  | 118.2 |
| 167       | 14.0  | 10.8  | 16.2  |





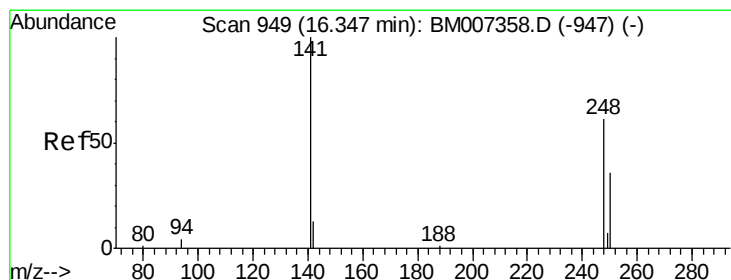
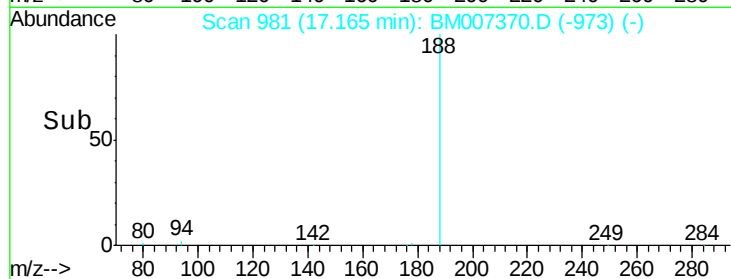
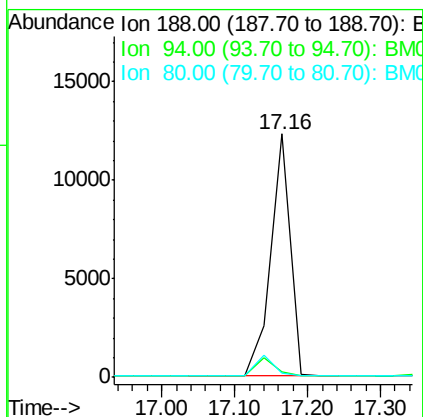
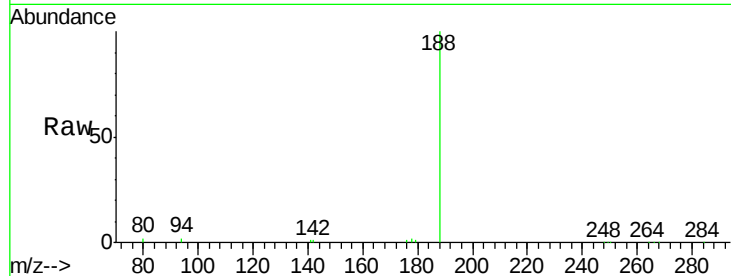
#19  
Phenanthrene-d10  
Concen: 5.00 ng  
RT: 17.16 min Scan# 981  
Delta R.T. 0.00 min  
Lab File: BM007370.D  
Acq: 02 Sep 2016 16:12

Instrument :  
BNA\_M  
ClientSampleId :  
NC-TS-003MSD

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 188     | 100   | 23003 |       |       |
| 94      | 2.2   |       | 2.0   | 3.0   |
| 80      | 1.9   |       | 1.6   | 2.4   |

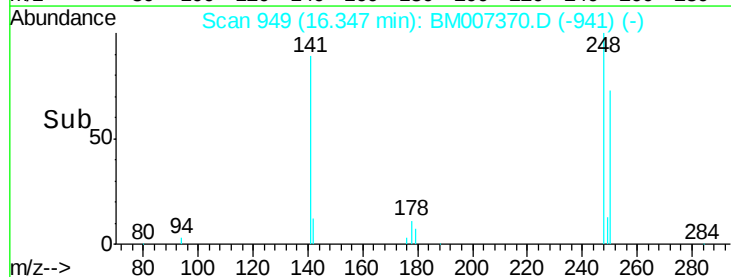
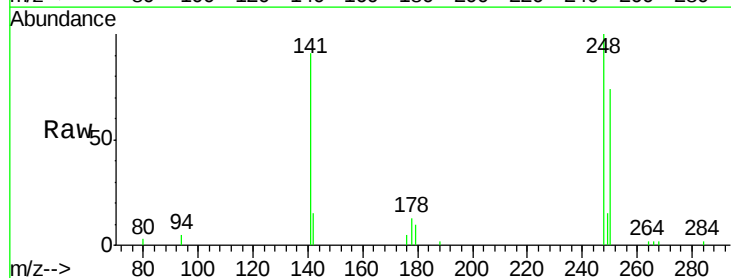
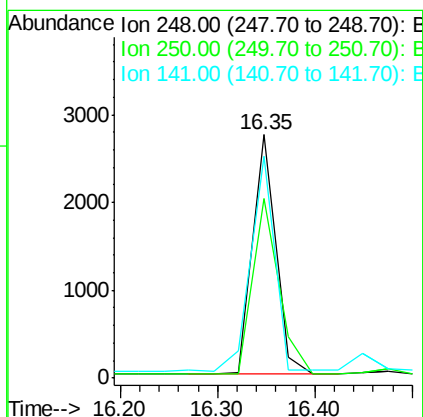
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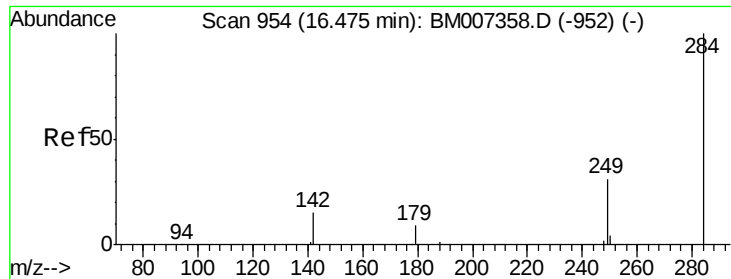
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#20  
4-Bromophenyl-phenylether  
Concen: 4.84 ng  
RT: 16.35 min Scan# 949  
Delta R.T. 0.00 min  
Lab File: BM007370.D  
Acq: 02 Sep 2016 16:12

| Tgt Ion | Ratio | Resp | Lower | Upper  |
|---------|-------|------|-------|--------|
| 248     | 100   | 4504 |       |        |
| 250     | 82.7  |      | 0.0   | 0.0#   |
| 141     | 93.4  |      | 98.2  | 147.4# |





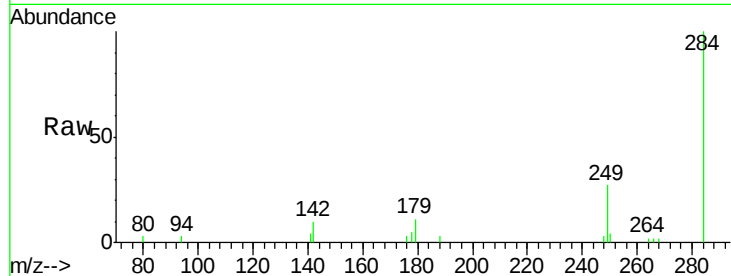
#21  
Hexachlorobenzene  
Concen: 3.93 ng  
RT: 16.47 min Scan# 954  
Delta R.T. 0.00 min  
Lab File: BM007370.D  
Acq: 02 Sep 2016 16:12

Instrument :  
BNA\_M  
ClientSampleId :  
NC-TS-003MSD

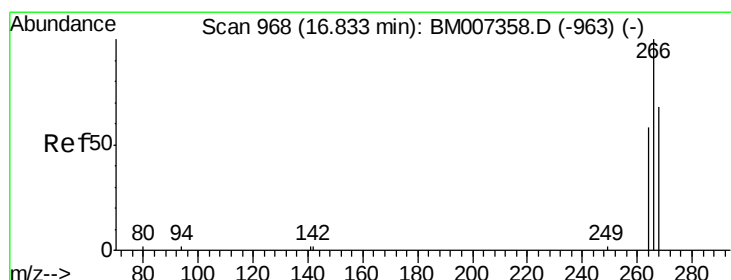
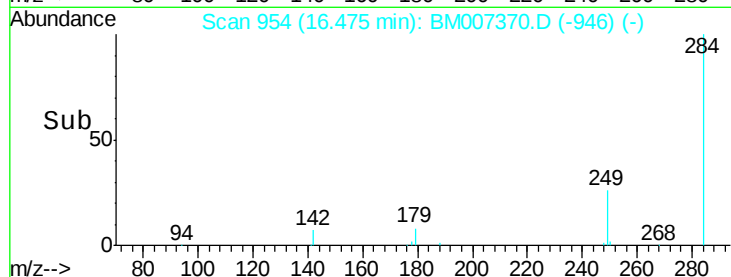
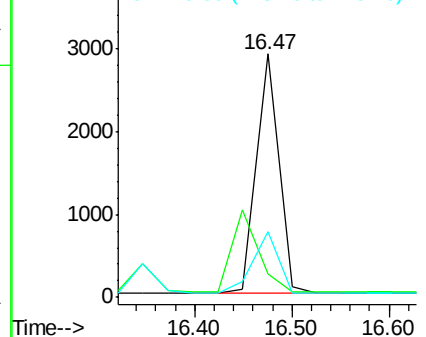
| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 284     | 100   | 4628 |       |       |
| 142     | 0.0   | 0.0  | 0.0   | 0.0   |
| 249     | 29.5  | 26.6 | 40.0  |       |

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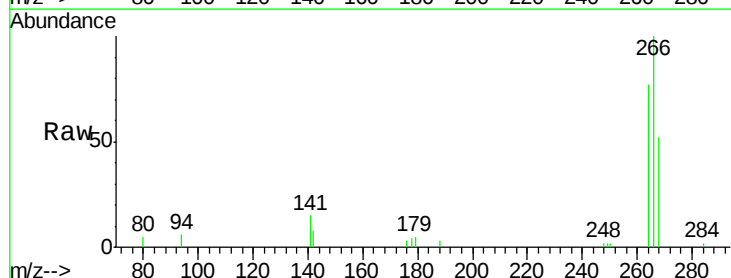


Abundance Ion 283.80 (283.50 to 284.50): E  
Ion 142.00 (141.70 to 142.70): E  
Ion 249.00 (248.70 to 249.70): E

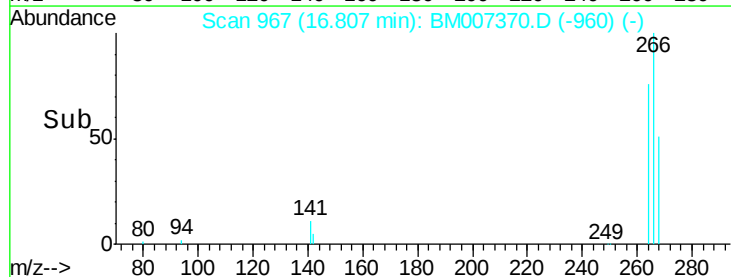
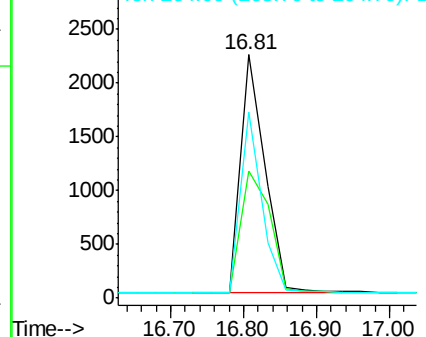


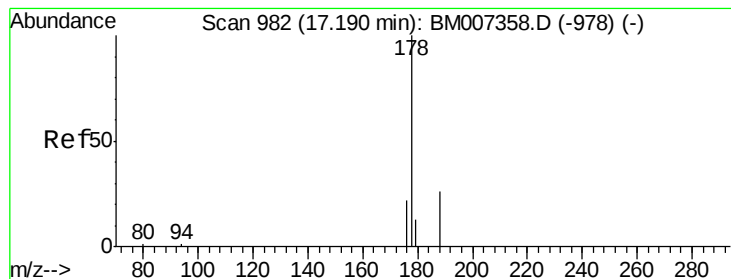
#22  
Pentachlorophenol  
Concen: 14.01 ng  
RT: 16.81 min Scan# 967  
Delta R.T. -0.02 min  
Lab File: BM007370.D  
Acq: 02 Sep 2016 16:12

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 266     | 100   | 5079 |       |       |
| 268     | 52.1  | 66.4 | 99.6# |       |
| 264     | 76.6  | 61.6 | 92.4  |       |



Abundance Ion 265.70 (265.40 to 266.40): E  
Ion 268.00 (267.70 to 268.70): E  
Ion 264.00 (263.70 to 264.70): E





#23

Phenanthrene

Concen: 7.70 ng

RT: 17.19 min Scan# 982

Delta R.T. 0.00 min

Lab File: BM007370.D

Acq: 02 Sep 2016 16:12

Instrument :

BNA\_M

ClientSampleId :

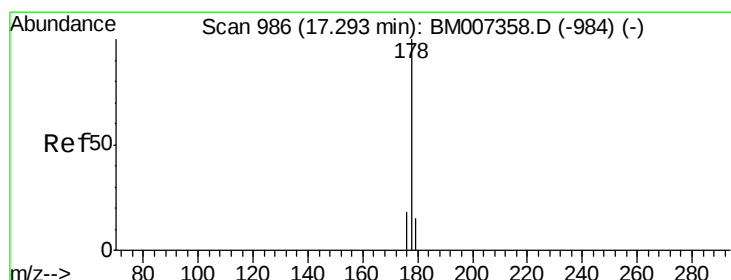
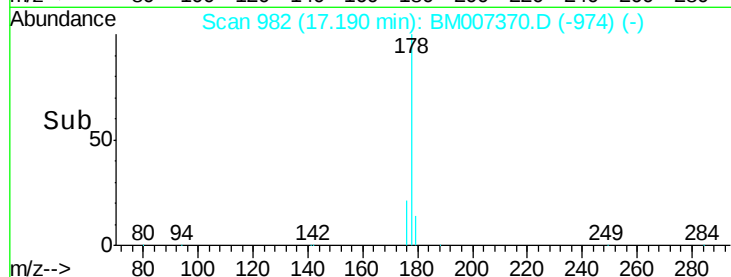
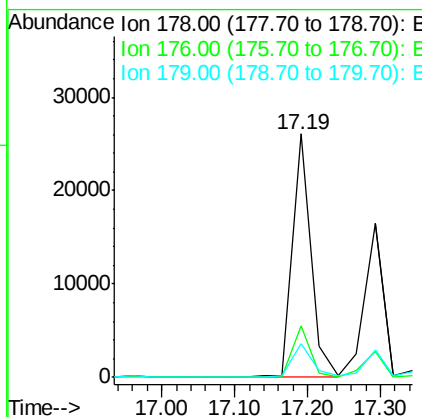
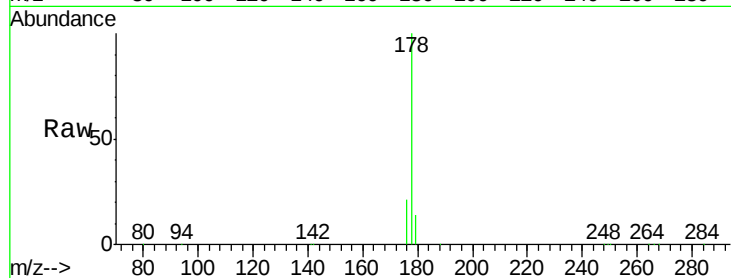
NC-TS-003MSD

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 45220 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 176       | 20.5  | 16.6  | 24.8  |
| 179       | 14.8  | 12.5  | 18.7  |

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#24

Anthracene

Concen: 4.92 ng m

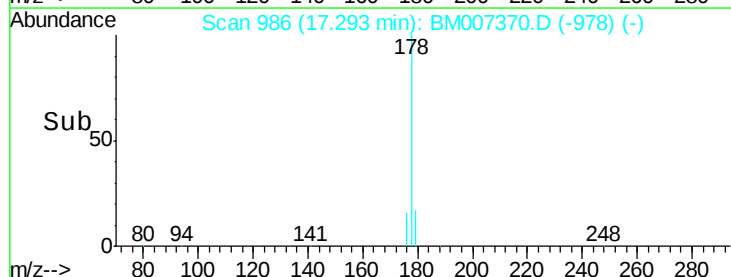
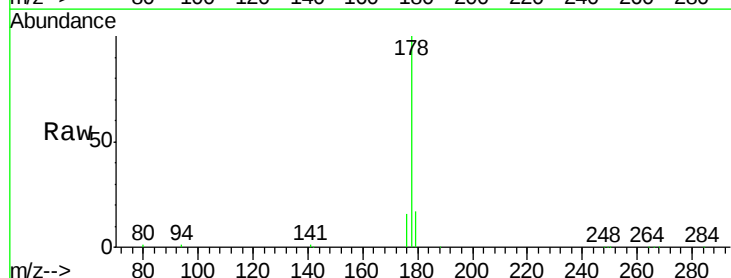
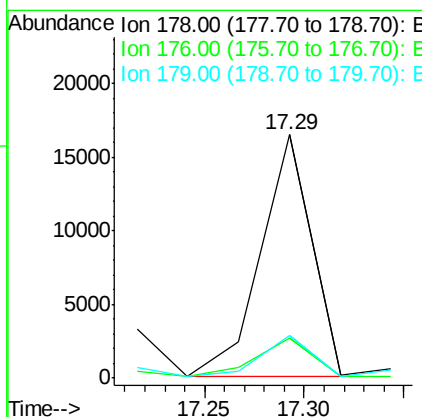
RT: 17.29 min Scan# 986

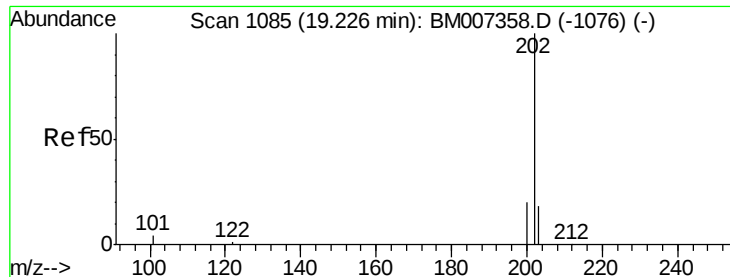
Delta R.T. 0.00 min

Lab File: BM007370.D

Acq: 02 Sep 2016 16:12

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 29044 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 176       | 31.5  | 14.8  | 22.2# |
| 179       | 22.5  | 12.2  | 18.2# |





#25

Fluoranthene

Concen: 9.07 ng

RT: 19.23 min Scan# 1085

Delta R.T. 0.00 min

Lab File: BM007370.D

Acq: 02 Sep 2016 16:12

Instrument :

BNA\_M

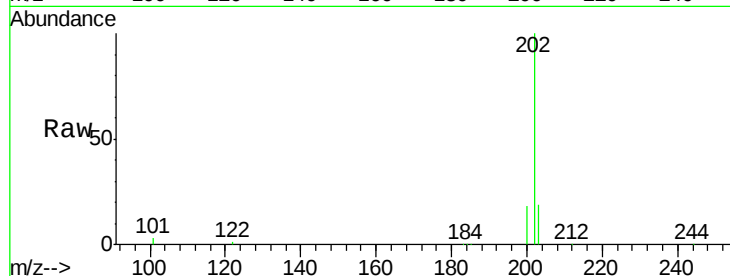
ClientSampleId :

NC-TS-003MSD

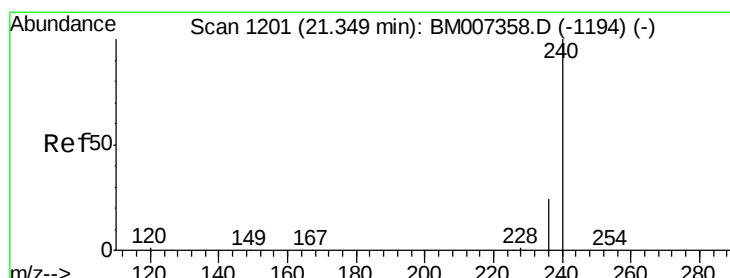
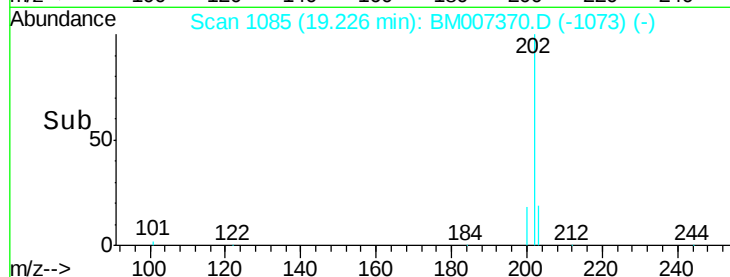
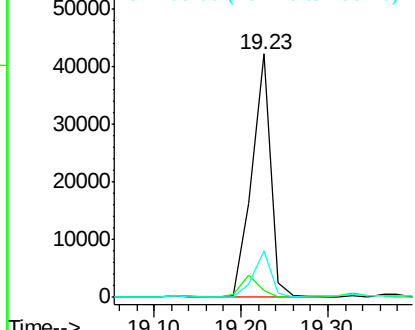
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 62695 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 8.7   | 6.5   | 9.7   |
| 203       | 17.6  | 14.2  | 21.2  |

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Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 203.00 (202.70 to 203.70): E



#26

Chrysene-d12

Concen: 5.00 ng

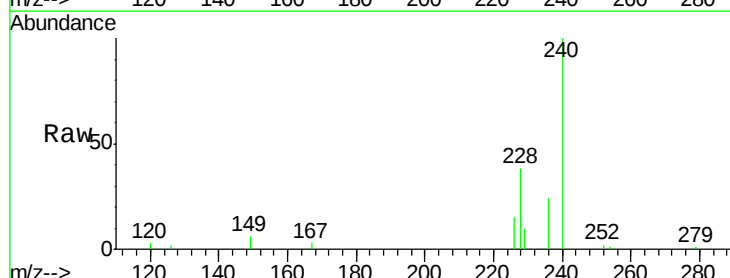
RT: 21.35 min Scan# 1201

Delta R.T. 0.00 min

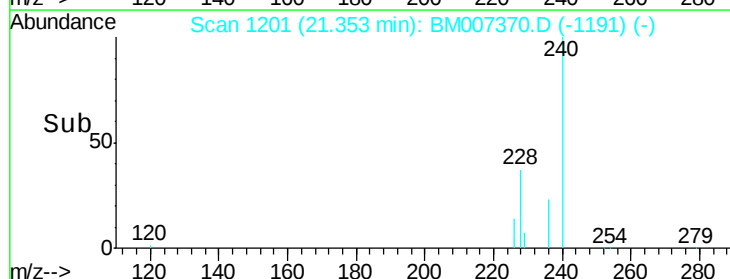
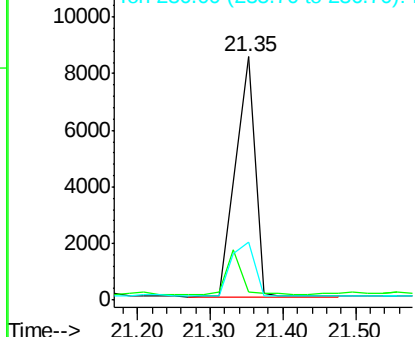
Lab File: BM007370.D

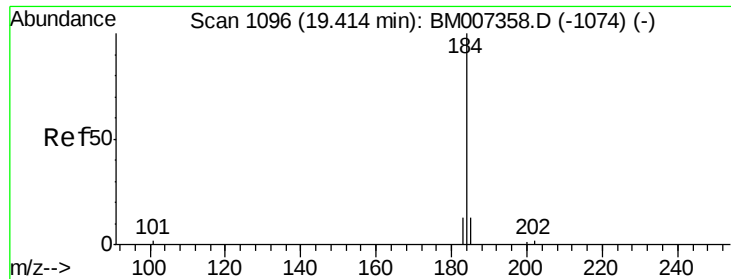
Acq: 02 Sep 2016 16:12

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 240   | Resp: | 15706 |
| Ion Ratio | Lower | Upper |       |
| 240       | 100   |       |       |
| 120       | 3.2   | 1.3   | 1.9#  |
| 236       | 24.1  | 19.1  | 28.7  |



Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E





#27

Benzidine

Concen: 0.03 ng

RT: 19.36 min Scan# 1093

Delta R.T. -0.05 min

Lab File: BM007370.D

Acq: 02 Sep 2016 16:12

Instrument :

BNA\_M

ClientSampleId :

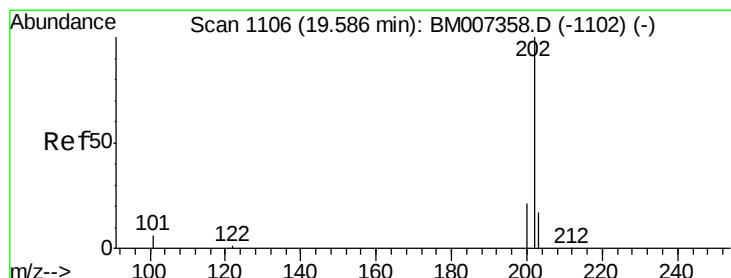
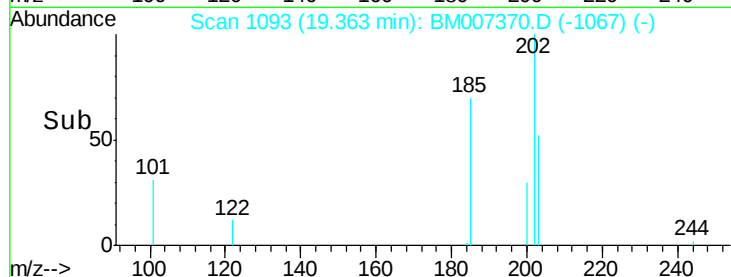
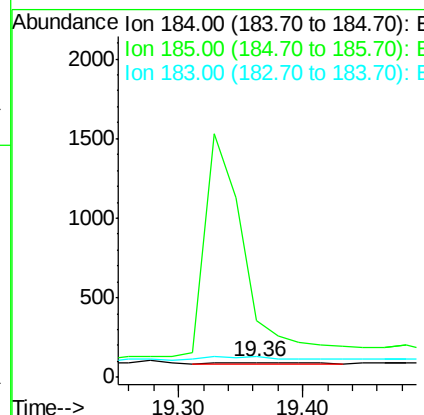
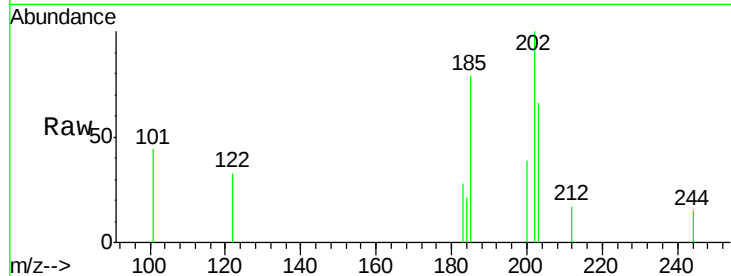
NC-TS-003MSD

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 184   | Resp: | 33    |
| Ion Ratio | Lower | Upper |       |
| 184       | 100   |       |       |
| 185       | 381.9 | 29.8  | 44.8# |
| 183       | 137.2 | 29.8  | 44.8# |

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#28

Pyrene

Concen: 13.27 ng

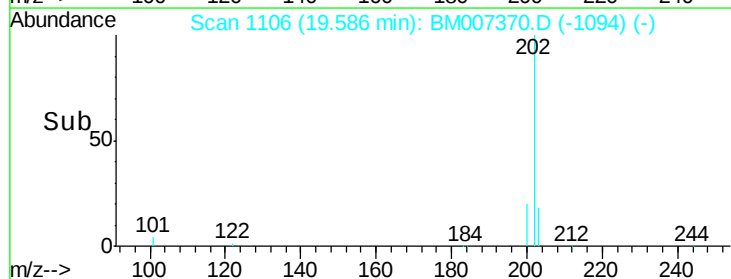
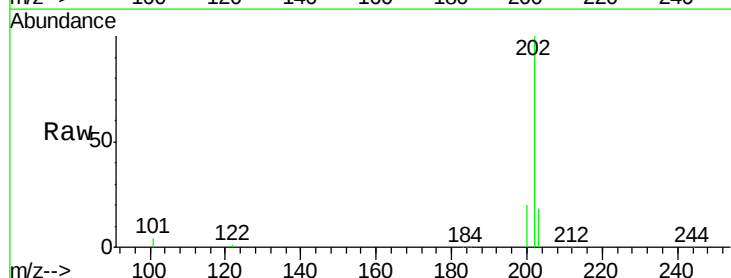
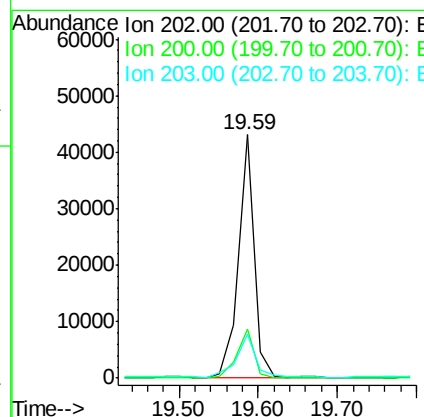
RT: 19.59 min Scan# 1106

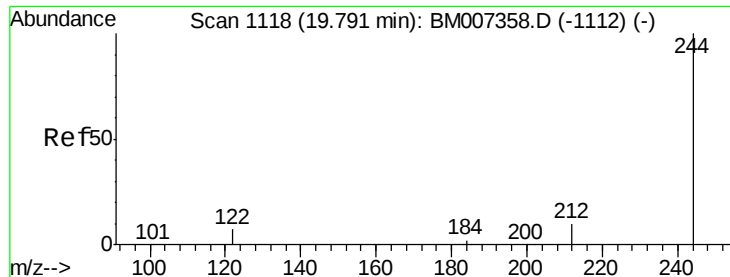
Delta R.T. 0.00 min

Lab File: BM007370.D

Acq: 02 Sep 2016 16:12

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 59394 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 200       | 21.0  | 16.6  | 25.0  |
| 203       | 21.2  | 13.8  | 20.8# |





#29

Terphenyl-d14

Concen: 5.02 ng

RT: 19.79 min Scan# 1118

Delta R.T. 0.00 min

Lab File: BM007370.D

Acq: 02 Sep 2016 16:12

Instrument :

BNA\_M

ClientSampleId :

NC-TS-003MSD

Tgt Ion:244 Resp: 10579

Ion Ratio Lower Upper

244 100

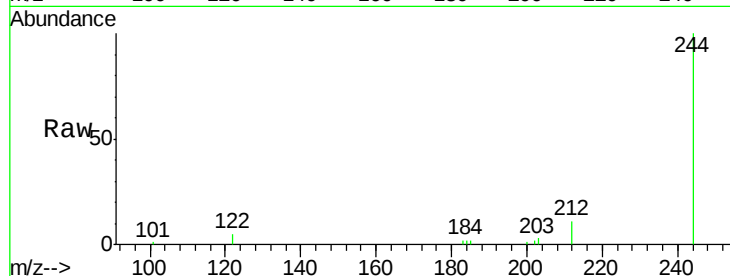
212 10.7 12.2 18.4#

122 4.7 9.6 14.4#

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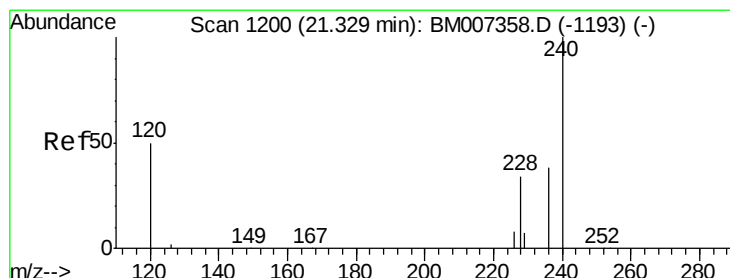
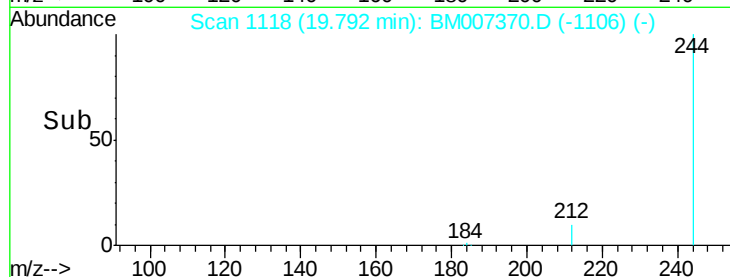
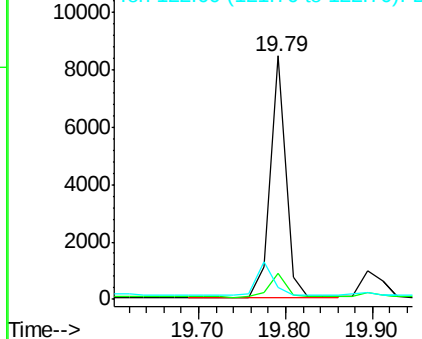
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Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#30

Benzo(a)anthracene

Concen: 7.79 ng

RT: 21.33 min Scan# 1200

Delta R.T. 0.00 min

Lab File: BM007370.D

Acq: 02 Sep 2016 16:12

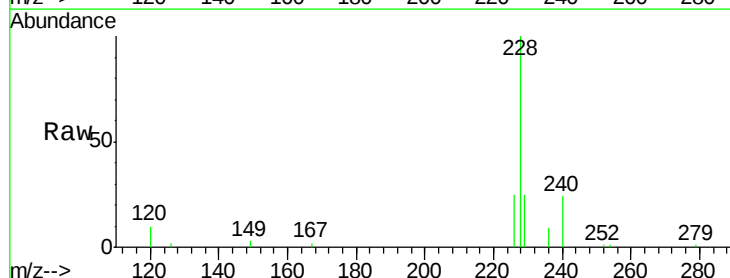
Tgt Ion:228 Resp: 35366

Ion Ratio Lower Upper

228 100

226 24.7 20.4 30.6

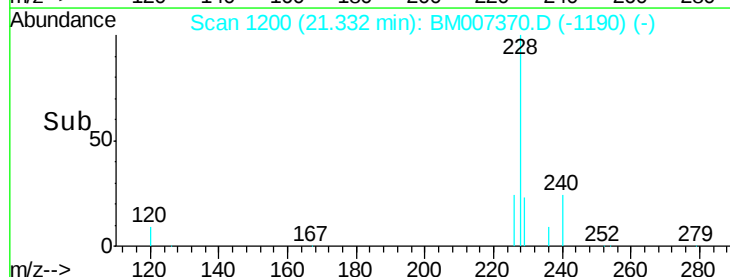
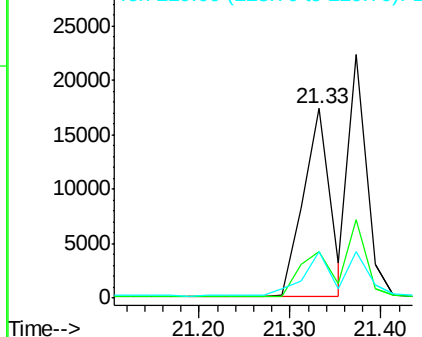
229 24.6 19.0 28.4

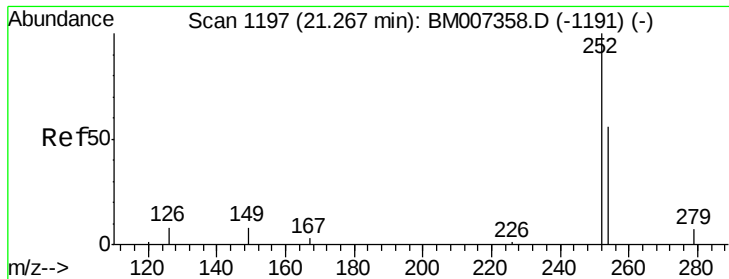


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





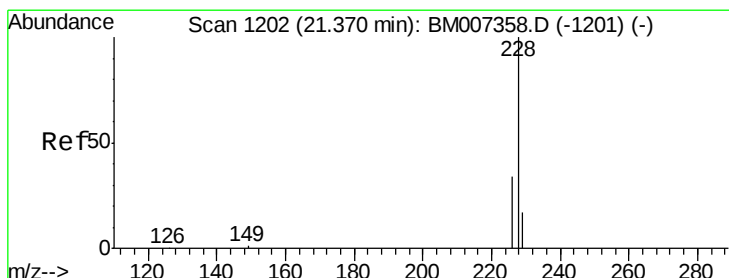
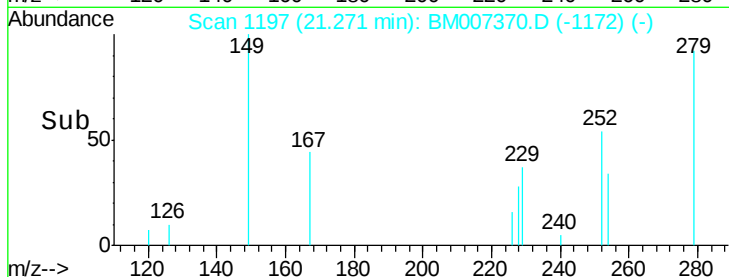
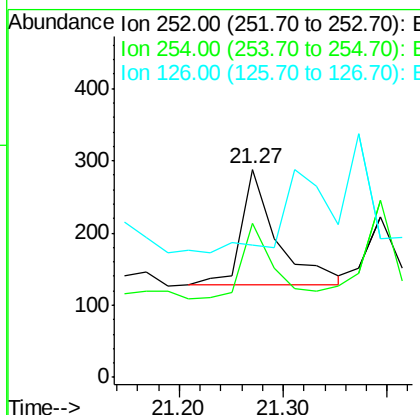
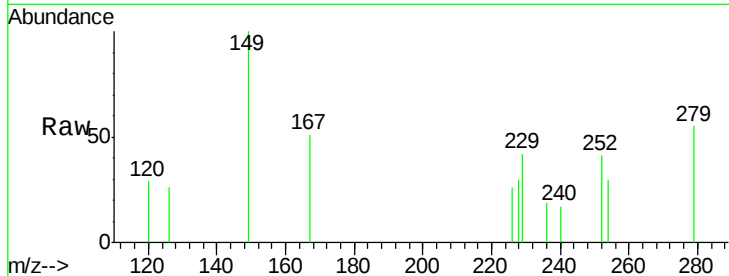
#31  
 3,3'-Dichlorobenzidine  
 Concen: 0.31 ng  
 RT: 21.27 min Scan# 1197  
 Delta R.T. 0.00 min  
 Lab File: BM007370.D  
 Acq: 02 Sep 2016 16:12

Instrument :  
 BNA\_M  
 ClientSampleId :  
 NC-TS-003MSD

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 254     | 74.3  | 49.4  | 74.0# |
| 126     | 63.5  | 16.3  | 24.5# |

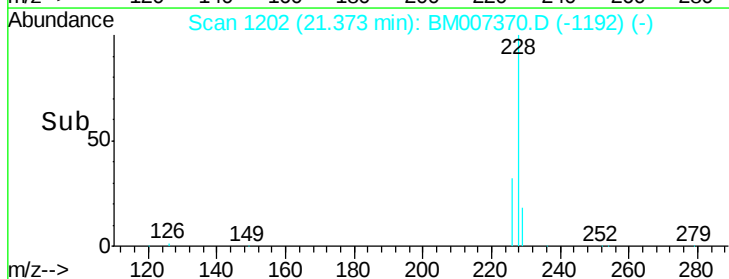
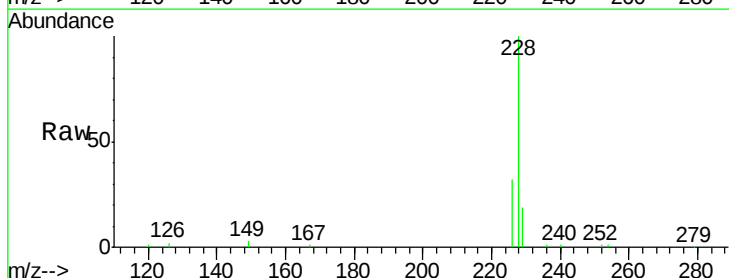
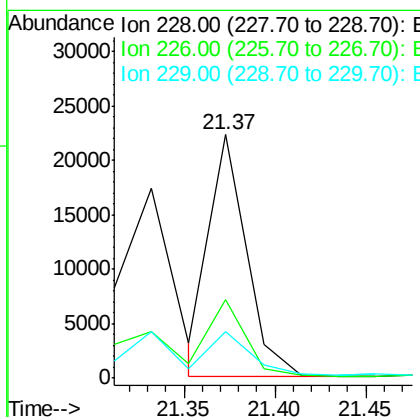
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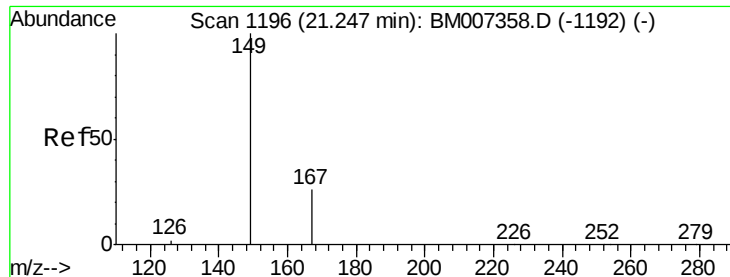
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#32  
 Chrysene  
 Concen: 7.08 ng m  
 RT: 21.37 min Scan# 1202  
 Delta R.T. 0.00 min  
 Lab File: BM007370.D  
 Acq: 02 Sep 2016 16:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 32.4  | 28.3  | 42.5  |
| 229     | 19.3  | 15.7  | 23.5  |





#33

Bis(2-ethylhexyl)phthalate

Concen: 9.36 ng

RT: 21.25 min Scan# 1196

Delta R.T. 0.00 min

Lab File: BM007370.D

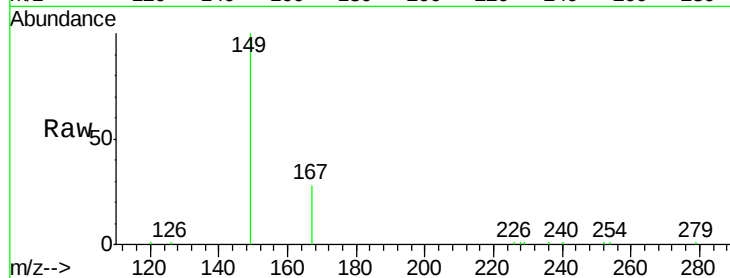
Acq: 02 Sep 2016 16:12

Instrument :

BNA\_M

ClientSampleId :

NC-TS-003MSD



Tgt Ion:149 Resp: 22159

Ion Ratio Lower Upper

149 100

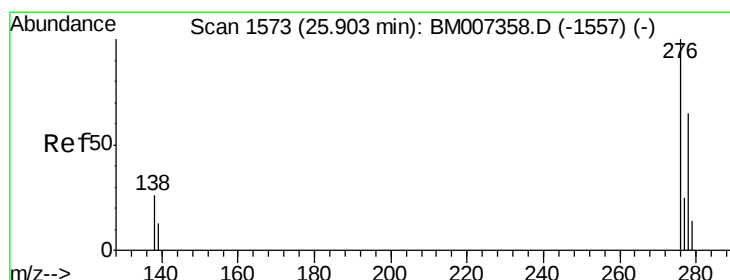
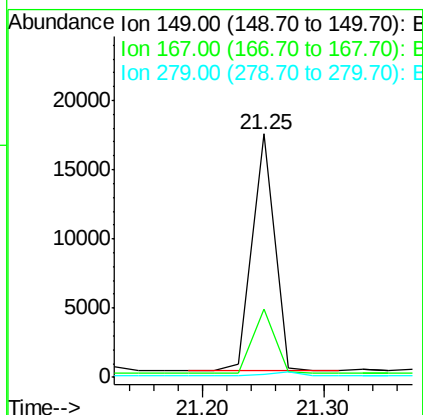
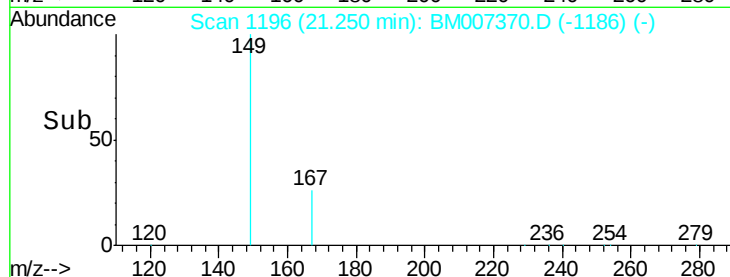
167 27.2 21.0 31.4

279 0.0 0.0 0.0

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#34

Indeno(1,2,3-cd)pyrene

Concen: 6.03 ng

RT: 25.90 min Scan# 1573

Delta R.T. -0.01 min

Lab File: BM007370.D

Acq: 02 Sep 2016 16:12

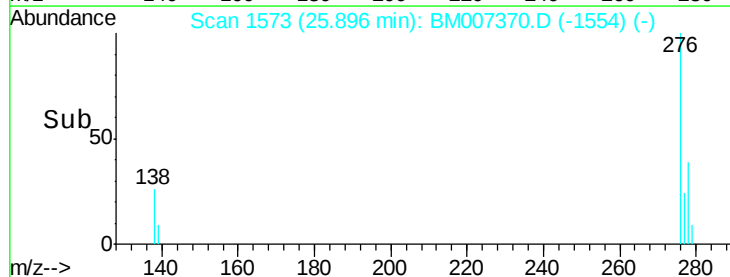
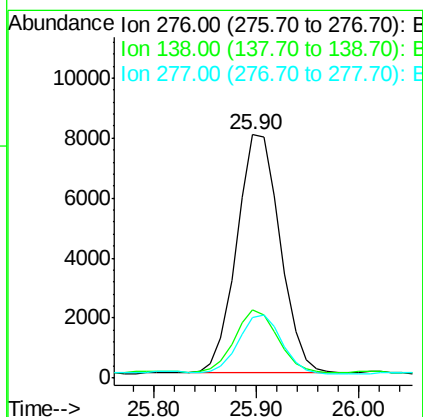
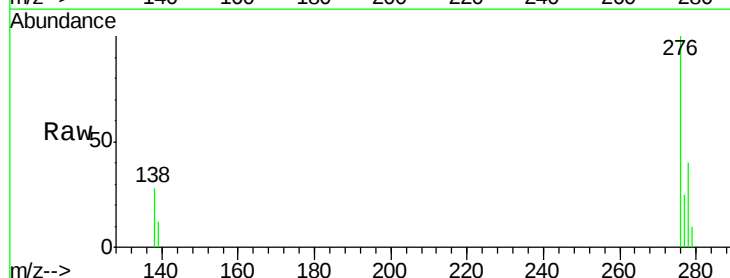
Tgt Ion:276 Resp: 23430

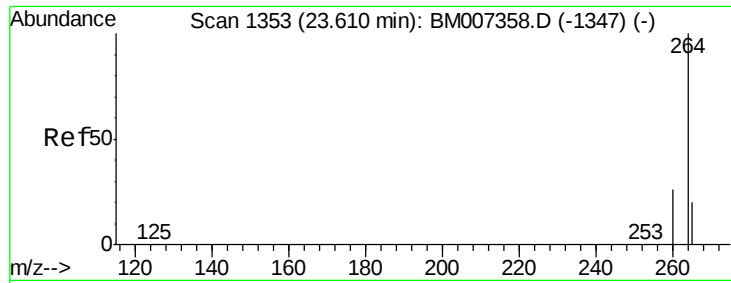
Ion Ratio Lower Upper

276 100

138 25.8 21.0 31.4

277 24.5 19.7 29.5





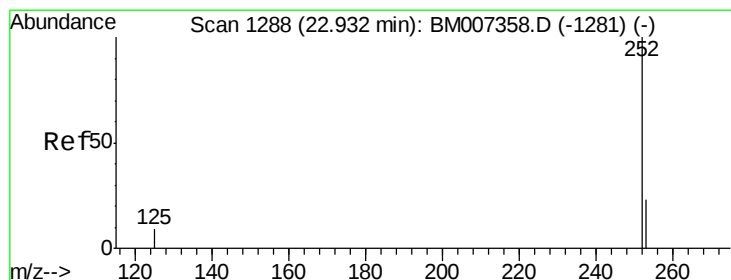
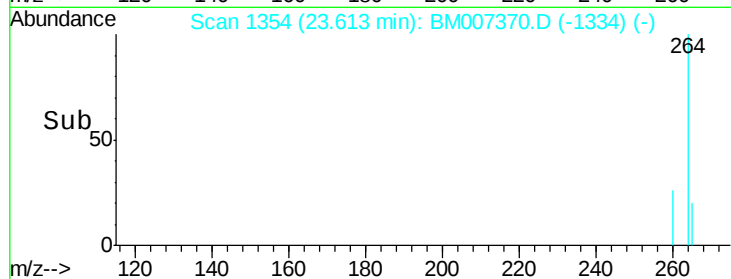
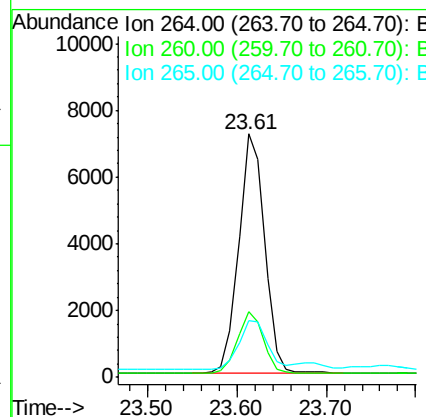
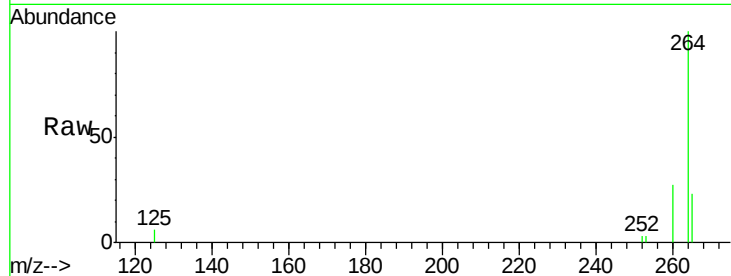
#35  
**Perylene-d12**  
 Concen: 5.00 ng  
 RT: 23.61 min Scan# 1354  
 Delta R.T. 0.00 min  
 Lab File: BM007370.D  
 Acq: 02 Sep 2016 16:12

Instrument :  
 BNA\_M  
 ClientSampleId :  
 NC-TS-003MSD

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 27.2  | 21.2  | 31.8  |
| 265     | 23.3  | 17.1  | 25.7  |

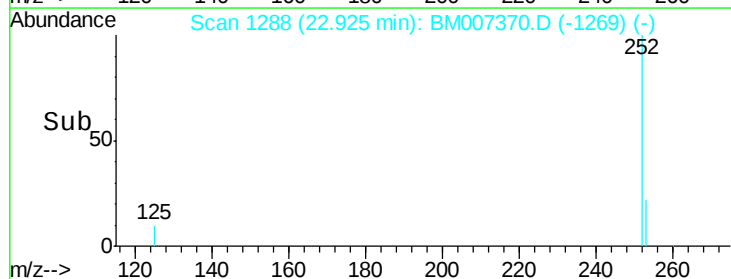
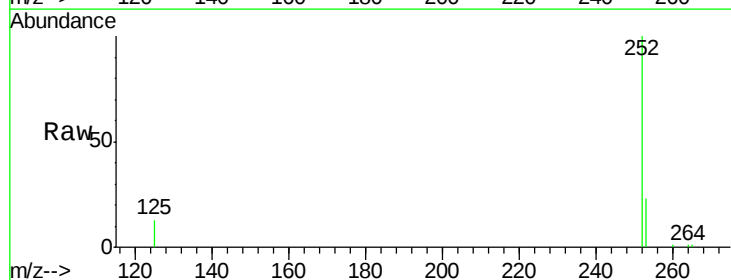
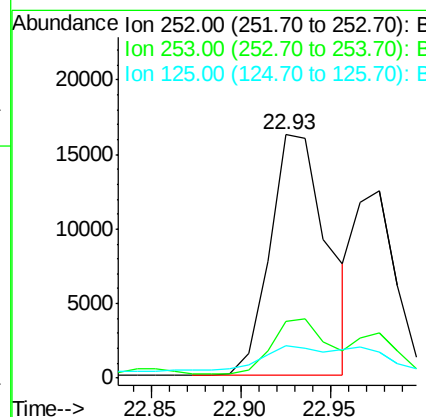
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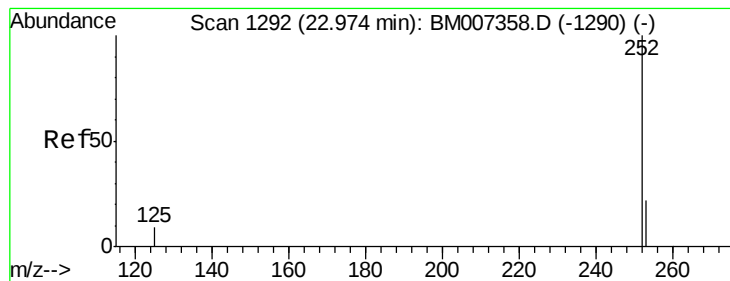
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#36  
**Benzo(b)fluoranthene**  
 Concen: 8.10 ng  
 RT: 22.93 min Scan# 1288  
 Delta R.T. -0.01 min  
 Lab File: BM007370.D  
 Acq: 02 Sep 2016 16:12

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.1  | 21.4  | 32.2  |
| 125     | 13.2  | 10.5  | 15.7  |





#37

Benzo(k)fluoranthene

Concen: 4.76 ng

RT: 22.98 min Scan# 1293

Delta R.T. 0.00 min

Lab File: BM007370.D

Acq: 02 Sep 2016 16:12

Instrument :

BNA\_M

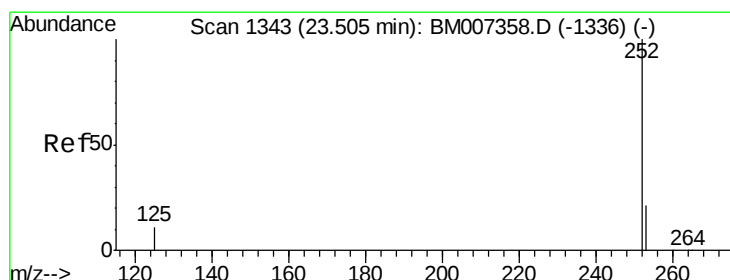
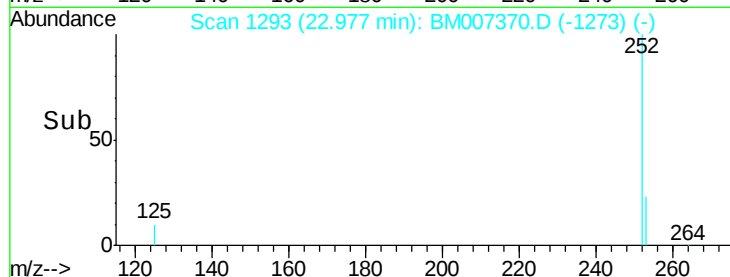
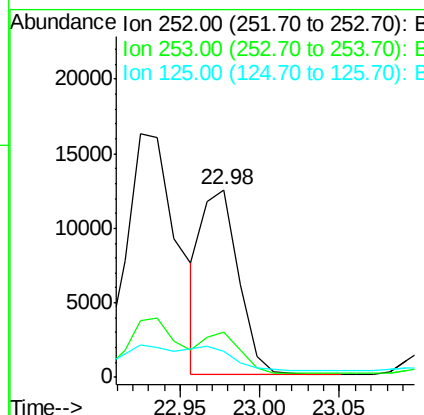
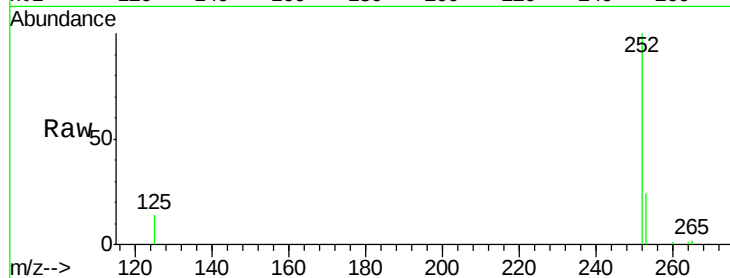
ClientSampleId :

NC-TS-003MSD

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 19659 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.3  | 20.6  | 30.8  |
| 125       | 14.1  | 10.7  | 16.1  |

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#38

Benzo(a)pyrene

Concen: 6.95 ng

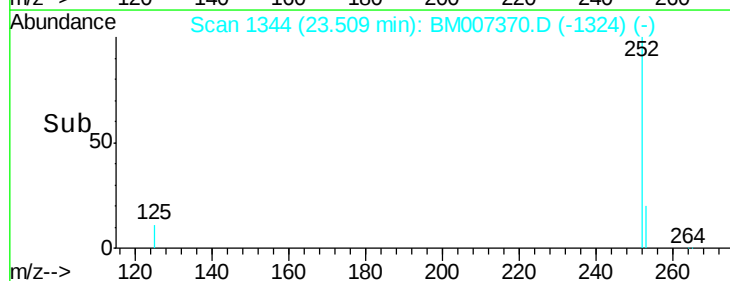
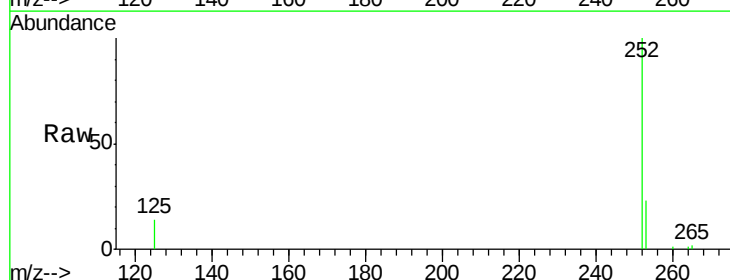
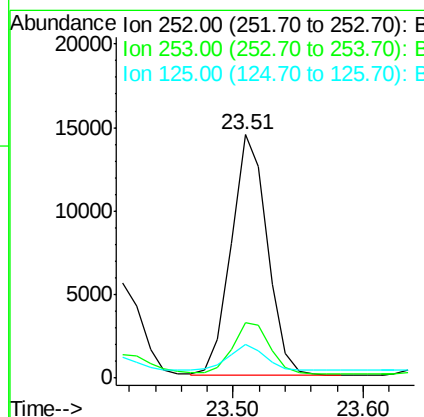
RT: 23.51 min Scan# 1344

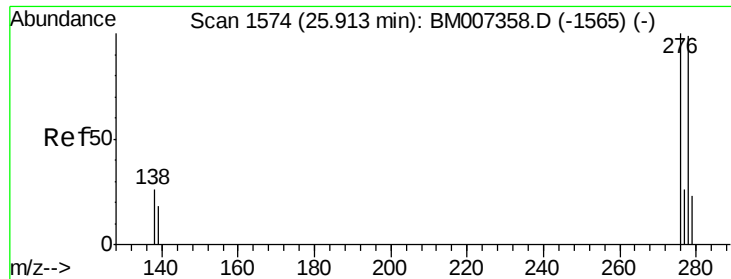
Delta R.T. 0.00 min

Lab File: BM007370.D

Acq: 02 Sep 2016 16:12

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 27628 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 22.7  | 20.6  | 31.0  |
| 125       | 13.7  | 13.0  | 19.4  |





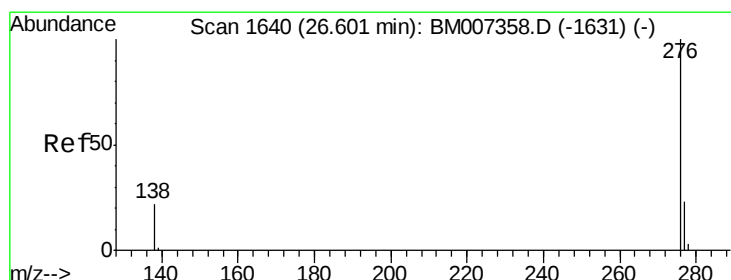
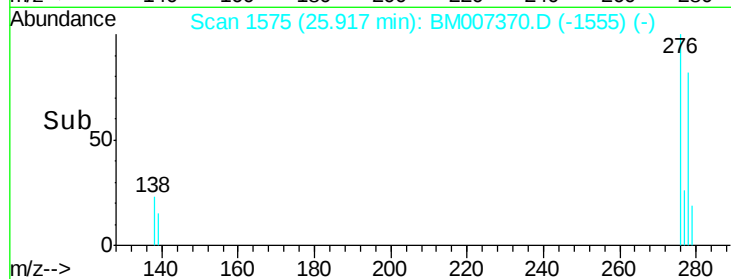
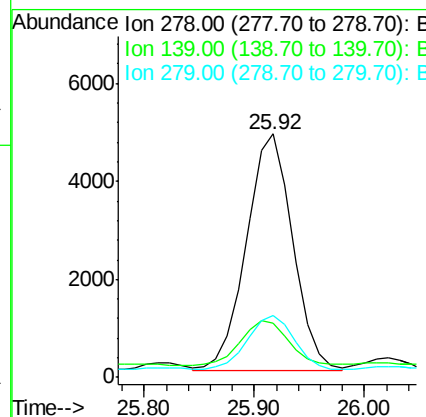
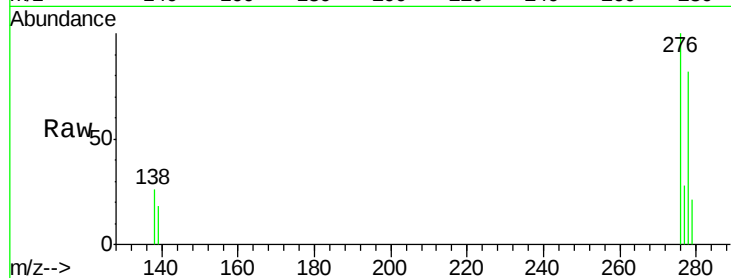
#39  
Dibenzo(a,h)anthracene  
Concen: 4.36 ng  
RT: 25.92 min Scan# 1575  
Delta R.T. 0.00 min  
Lab File: BM007370.D  
Acq: 02 Sep 2016 16:12

Instrument :  
BNA\_M  
ClientSampleId :  
NC-TS-003MSD

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 278     | 100   | 14069 |       |       |
| 139     | 22.3  | 20.4  | 30.6  |       |
| 279     | 25.5  | 24.2  | 36.4  |       |

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#40  
Benzo(g,h,i)perylene  
Concen: 6.39 ng  
RT: 26.61 min Scan# 1641  
Delta R.T. 0.00 min  
Lab File: BM007370.D  
Acq: 02 Sep 2016 16:12

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 276     | 100   | 21373 |       |       |
| 277     | 24.7  | 24.2  | 36.2  |       |
| 138     | 25.5  | 23.1  | 34.7  |       |

